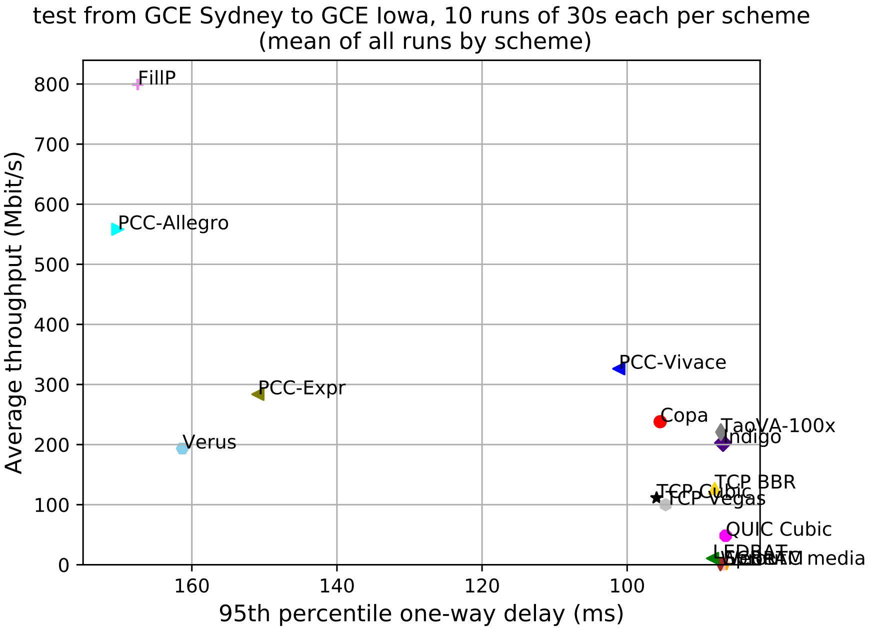
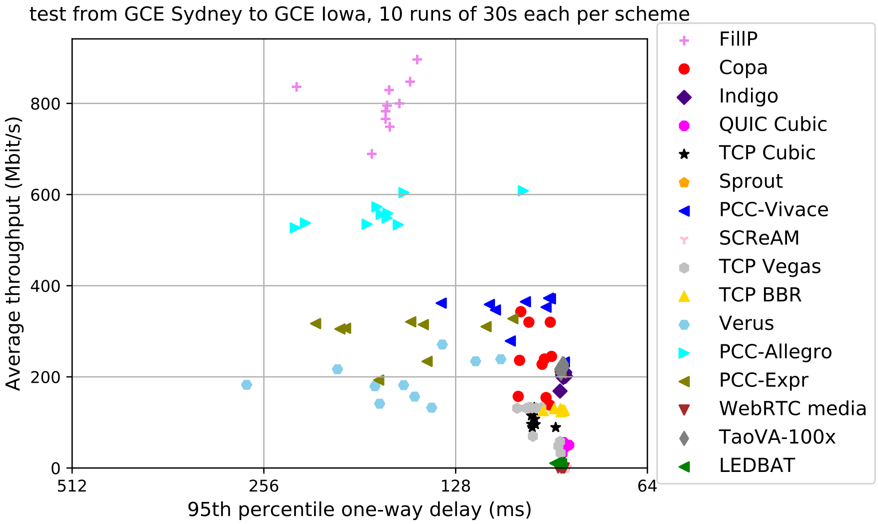
Pantheon Report

Generated at 2018-05-24 04:38:45 (UTC).
Data path: GCE Sydney Ethernet (*local*) →GCE Iowa 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 `time.google.com` and have been applied to correct the timestamps in logs.

```
Git summary:
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
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
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

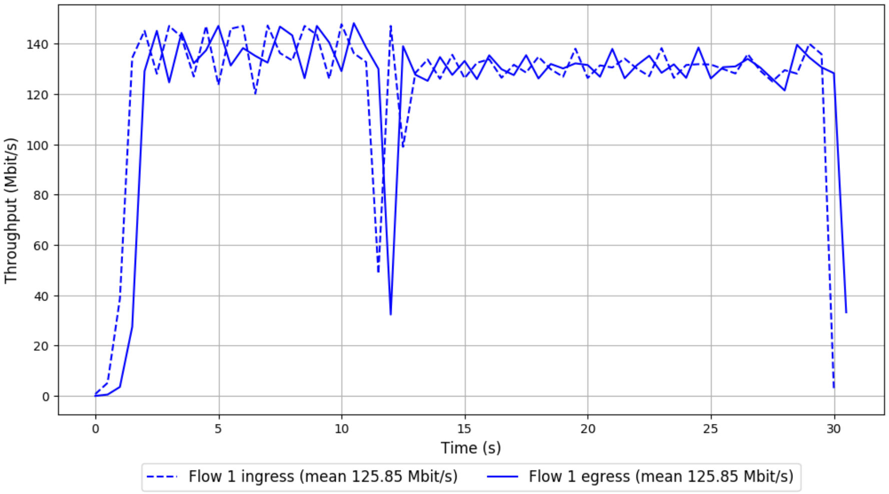

test from GCE Sydney to GCE Iowa, 10 runs of 30s each per scheme
(mean of all runs by scheme)
Average throughput (Mbit/s)
95th percentile one-way delay (ms)
800
700
600
500
400
300
200
100
0
160
140
120
100
FillP
PCC-Allegro
PCC-Vivace
PCC-Expr
Verus
Copa
TaoVA-100x
Indigo
TCP BBR
TCP Cubic
TCP Vegas
QUIC Cubic
LEDBAT
WebRTC media

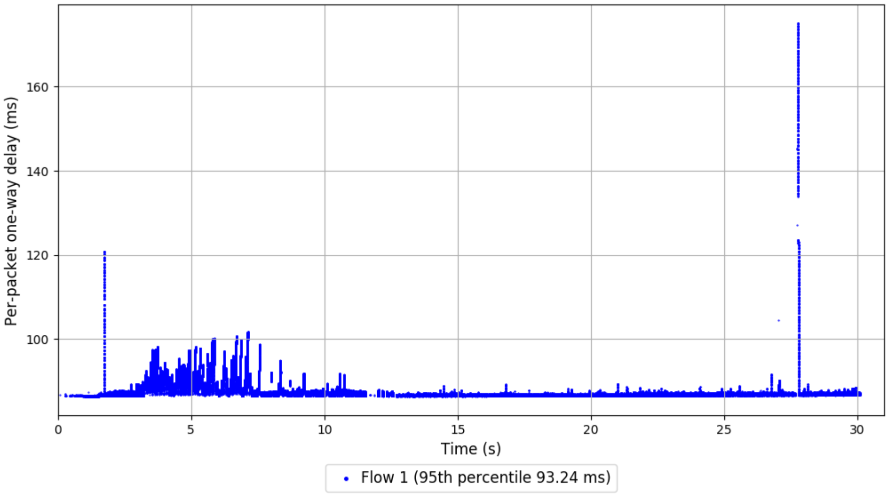

test from GCE Sydney to GCE Iowa, 10 runs of 30s each per scheme
Average throughput (Mbit/s)
95th percentile one-way delay (ms)
800
600
400
200
0
512
256
128
64
FillP
Copa
Indigo
QUIC Cubic
TCP Cubic
Sprout
PCC-Vivace
SCReAM
TCP Vegas
TCP BBR
Verus
PCC-Allegro
PCC-Expr
WebRTC media
TaoVA-100x
LEDBAT

scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	126.88	87.93	0.00
Copa	10	238.06	95.45	0.01
TCP Cubic	10	111.26	95.94	0.01
FillP	10	799.18	167.46	4.08
Indigo	10	202.56	86.78	0.01
LEDBAT	10	10.58	88.22	0.01
PCC-Allegro	10	558.20	170.21	1.40
PCC-Expr	10	283.68	150.90	0.54
QUIC Cubic	9	48.37	86.41	0.00
SCReAM	10	0.22	86.62	0.00
Sprout	10	0.27	86.71	0.00
TaoVA-100x	10	220.76	87.08	0.01
TCP Vegas	10	99.89	94.69	0.01
Verus	10	193.46	161.30	0.87
PCC-Vivace	10	326.21	101.15	0.07
WebRTC media	10	0.05	87.14	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2018-05-23 23:39:58
End at: 2018-05-23 23:40:28
Local clock offset: 9.471 ms
Remote clock offset: 7.663 ms

# Below is generated by plot.py at 2018-05-24 03:13:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.85 Mbit/s
95th percentile per-packet one-way delay: 93.237 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 125.85 Mbit/s
95th percentile per-packet one-way delay: 93.237 ms
Loss rate: 0.00%
```

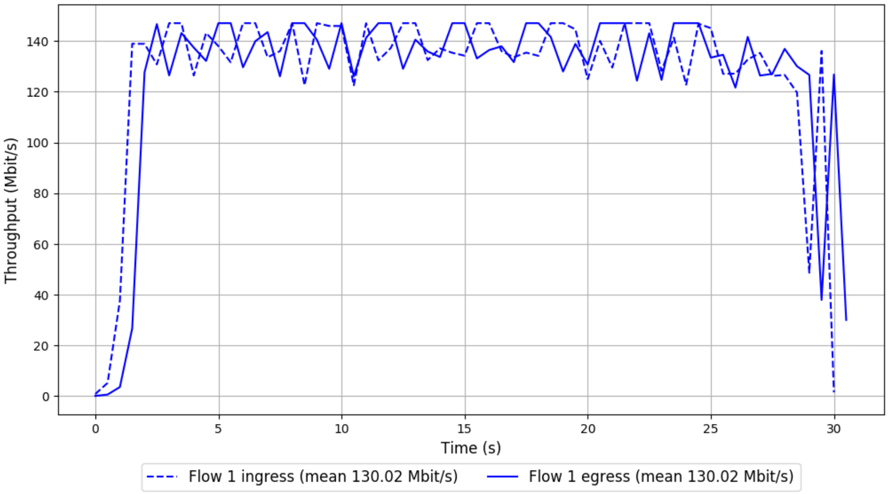
Run 1: Report of TCP BBR — Data Link

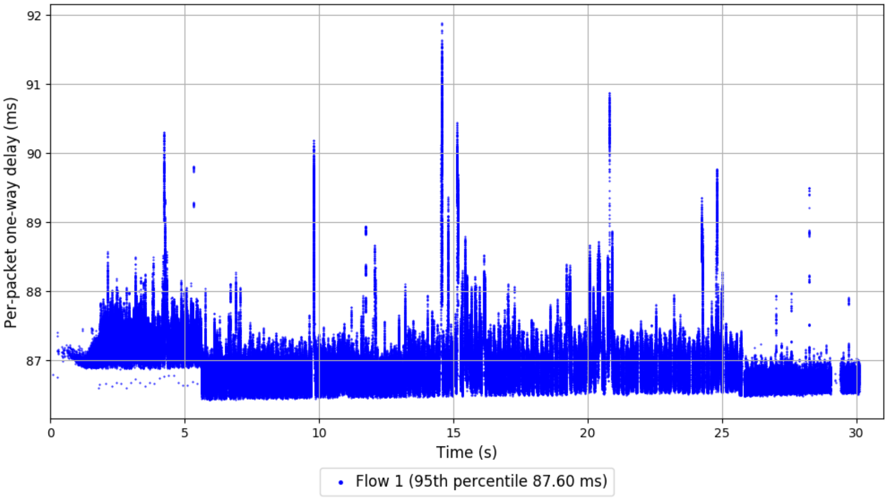




```
Run 2: Statistics of TCP BBR

Start at: 2018-05-24 00:00:34
End at: 2018-05-24 00:01:04
Local clock offset: 24.628 ms
Remote clock offset: 19.39 ms

# Below is generated by plot.py at 2018-05-24 03:13:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.02 Mbit/s
95th percentile per-packet one-way delay: 87.604 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.02 Mbit/s
95th percentile per-packet one-way delay: 87.604 ms
Loss rate: 0.00%
```

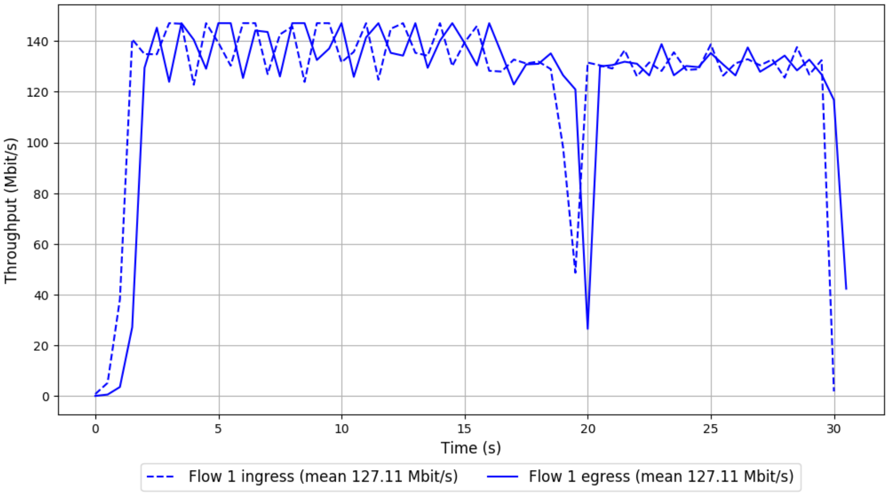
Run 2: Report of TCP BBR — Data Link

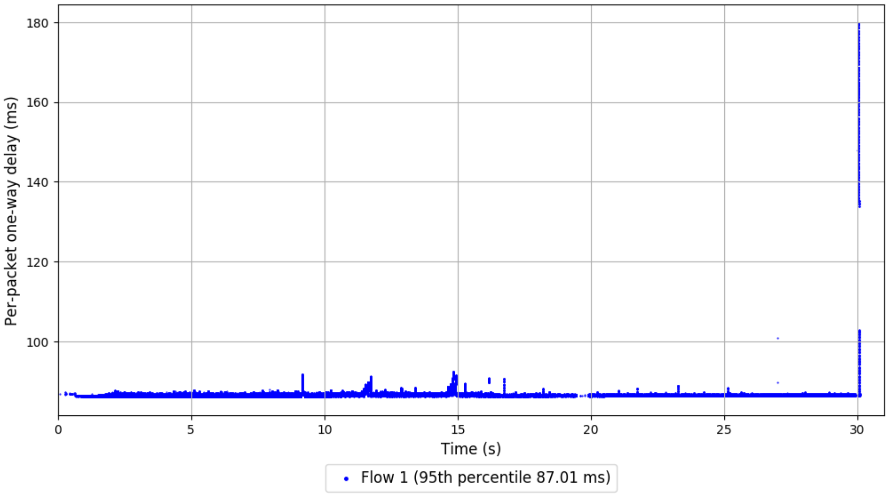




```
Run 3: Statistics of TCP BBR

Start at: 2018-05-24 00:21:49
End at: 2018-05-24 00:22:19
Local clock offset: 26.576 ms
Remote clock offset: 21.102 ms

# Below is generated by plot.py at 2018-05-24 03:13:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 127.11 Mbit/s
95th percentile per-packet one-way delay: 87.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 127.11 Mbit/s
95th percentile per-packet one-way delay: 87.012 ms
Loss rate: 0.00%
```

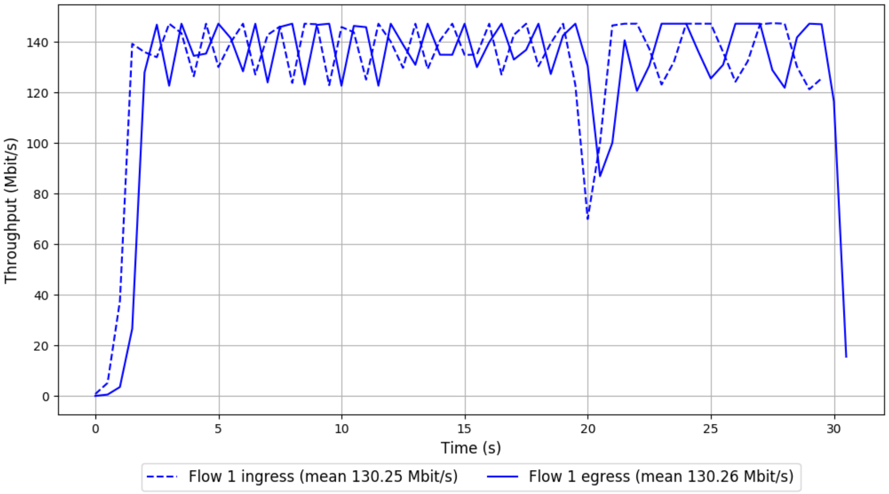
Run 3: Report of TCP BBR — Data Link

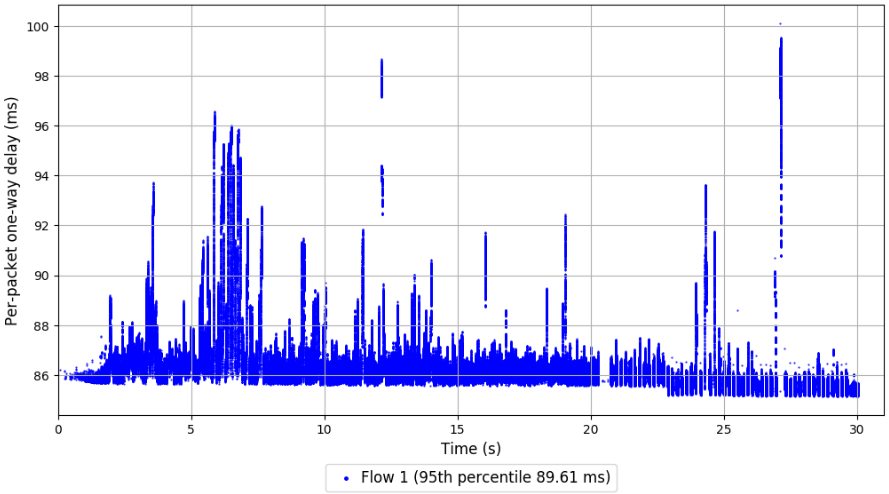




```
Run 4: Statistics of TCP BBR

Start at: 2018-05-24 00:42:57
End at: 2018-05-24 00:43:27
Local clock offset: 27.129 ms
Remote clock offset: 21.575 ms

# Below is generated by plot.py at 2018-05-24 03:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.26 Mbit/s
95th percentile per-packet one-way delay: 89.611 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 130.26 Mbit/s
95th percentile per-packet one-way delay: 89.611 ms
Loss rate: 0.00%
```

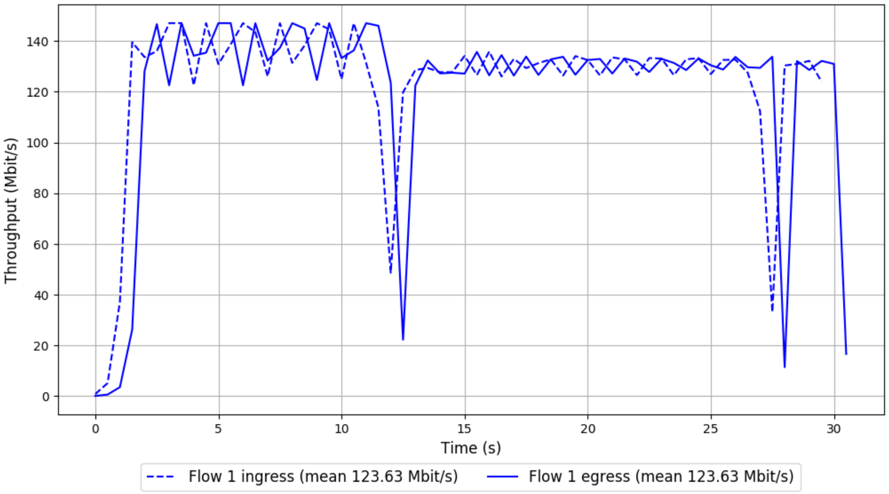
Run 4: Report of TCP BBR — Data Link

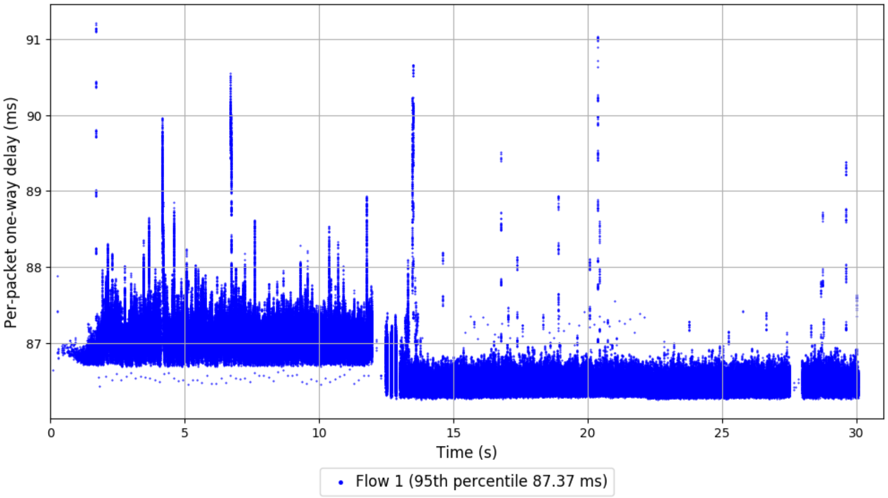




```
Run 5: Statistics of TCP BBR

Start at: 2018-05-24 01:04:17
End at: 2018-05-24 01:04:47
Local clock offset: 18.627 ms
Remote clock offset: 14.703 ms

# Below is generated by plot.py at 2018-05-24 03:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 123.63 Mbit/s
95th percentile per-packet one-way delay: 87.370 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 123.63 Mbit/s
95th percentile per-packet one-way delay: 87.370 ms
Loss rate: 0.00%
```

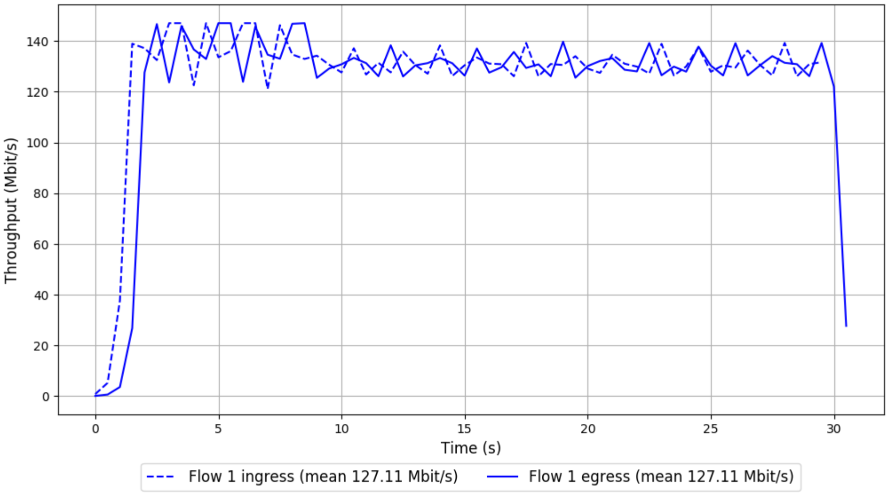
Run 5: Report of TCP BBR — Data Link

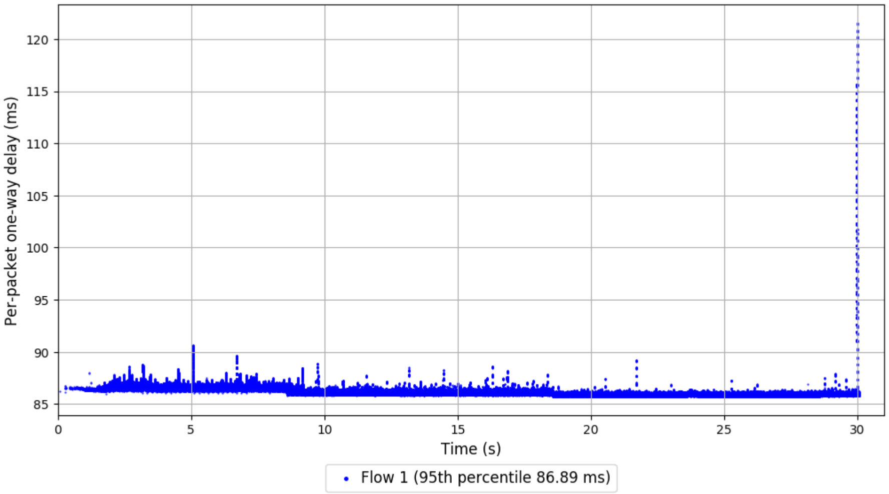




```
Run 6: Statistics of TCP BBR

Start at: 2018-05-24 01:25:21
End at: 2018-05-24 01:25:51
Local clock offset: 8.802 ms
Remote clock offset: 6.896 ms

# Below is generated by plot.py at 2018-05-24 03:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 127.11 Mbit/s
95th percentile per-packet one-way delay: 86.885 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 127.11 Mbit/s
95th percentile per-packet one-way delay: 86.885 ms
Loss rate: 0.00%
```

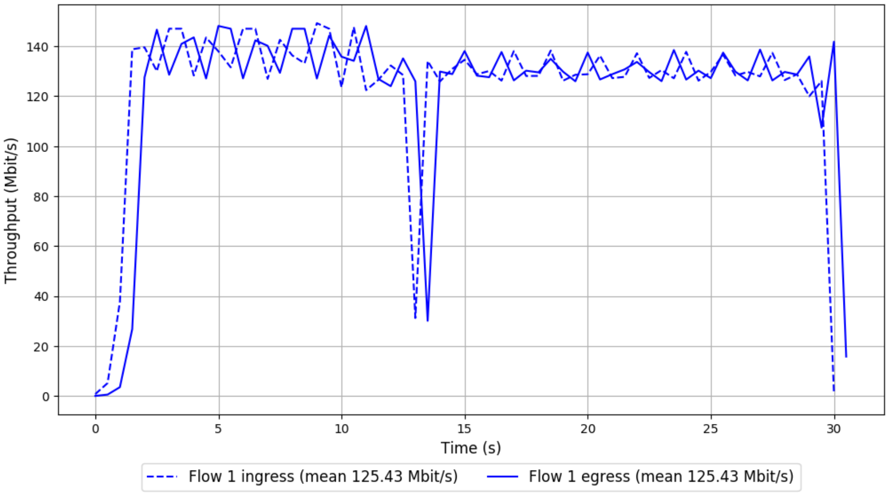
Run 6: Report of TCP BBR — Data Link

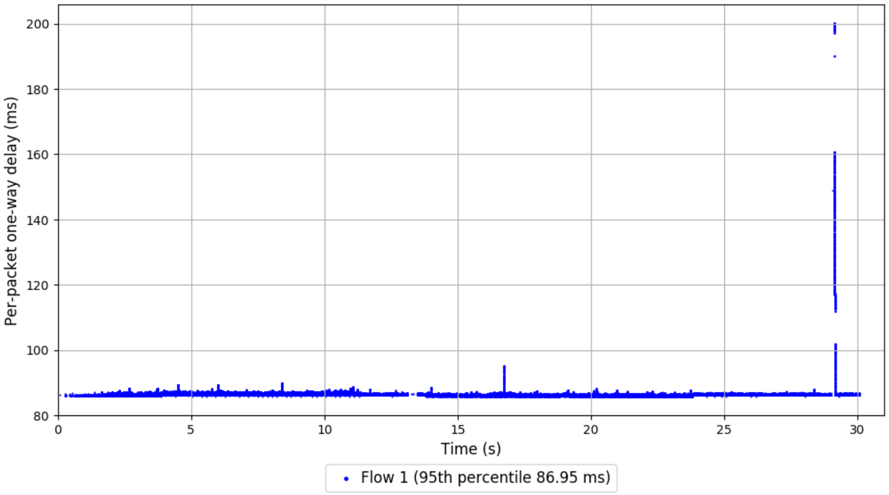




```
Run 7: Statistics of TCP BBR

Start at: 2018-05-24 01:46:26
End at: 2018-05-24 01:46:56
Local clock offset: 9.955 ms
Remote clock offset: 8.134 ms

# Below is generated by plot.py at 2018-05-24 03:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.43 Mbit/s
95th percentile per-packet one-way delay: 86.947 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 125.43 Mbit/s
95th percentile per-packet one-way delay: 86.947 ms
Loss rate: 0.00%
```

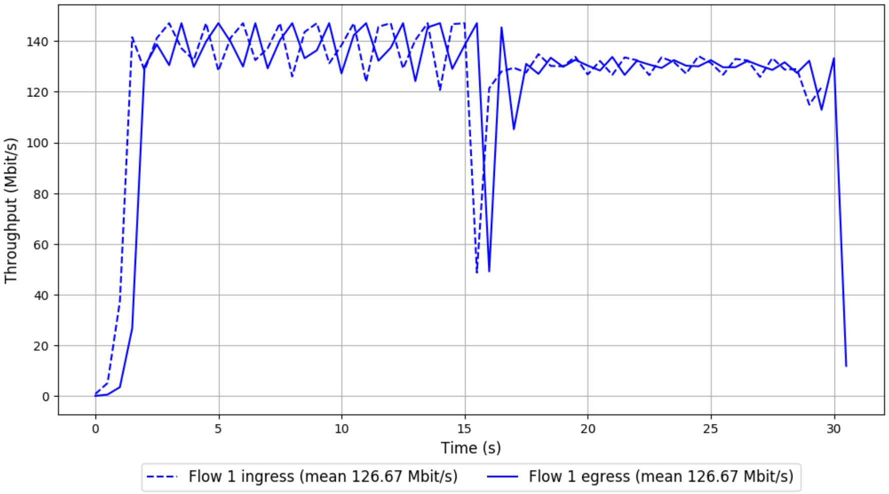
Run 7: Report of TCP BBR — Data Link

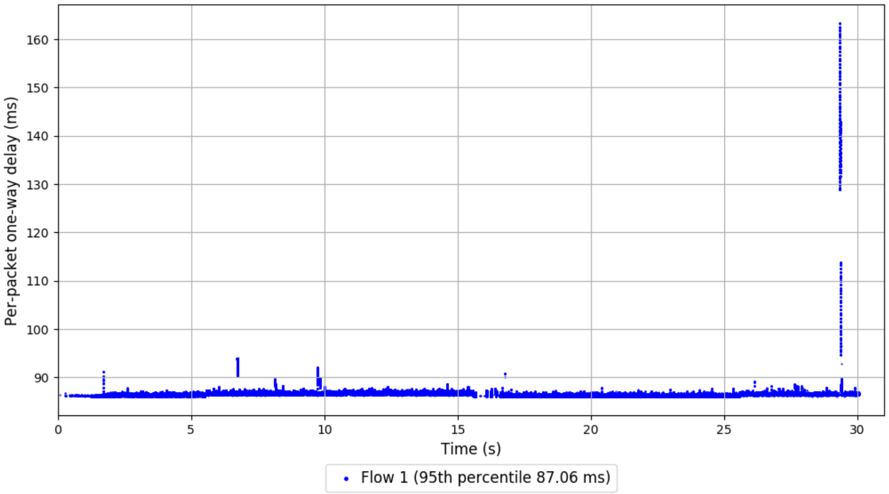




```
Run 8: Statistics of TCP BBR

Start at: 2018-05-24 02:07:24
End at: 2018-05-24 02:07:54
Local clock offset: 2.26 ms
Remote clock offset: 1.793 ms

# Below is generated by plot.py at 2018-05-24 03:13:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 126.67 Mbit/s
95th percentile per-packet one-way delay: 87.056 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 126.67 Mbit/s
95th percentile per-packet one-way delay: 87.056 ms
Loss rate: 0.00%
```

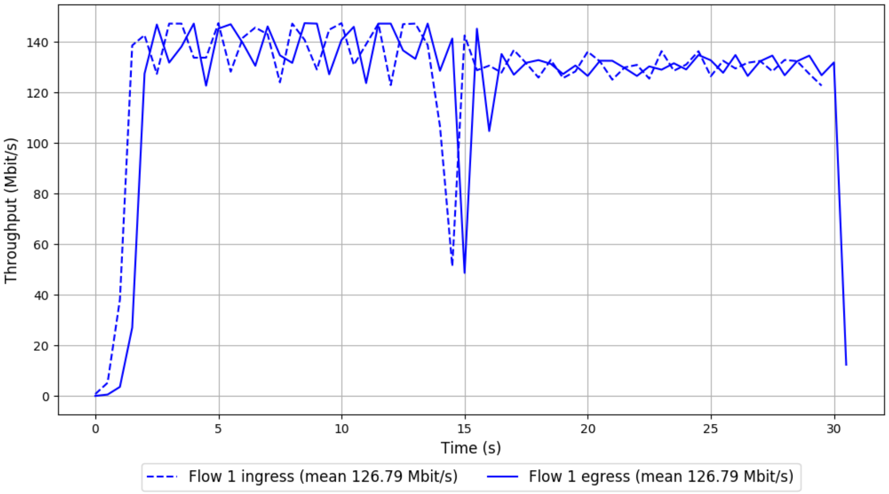
Run 8: Report of TCP BBR — Data Link

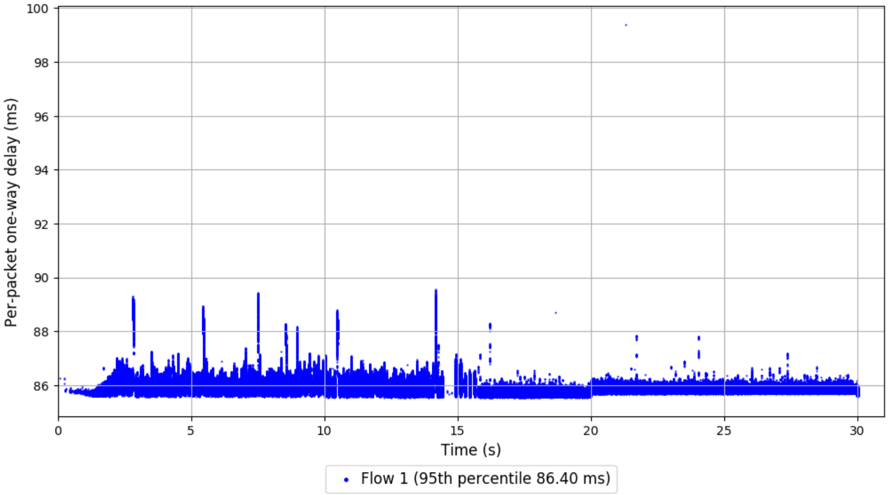




```
Run 9: Statistics of TCP BBR

Start at: 2018-05-24 02:28:20
End at: 2018-05-24 02:28:50
Local clock offset: 1.488 ms
Remote clock offset: 0.876 ms

# Below is generated by plot.py at 2018-05-24 03:15:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 126.79 Mbit/s
95th percentile per-packet one-way delay: 86.397 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 126.79 Mbit/s
95th percentile per-packet one-way delay: 86.397 ms
Loss rate: 0.00%
```

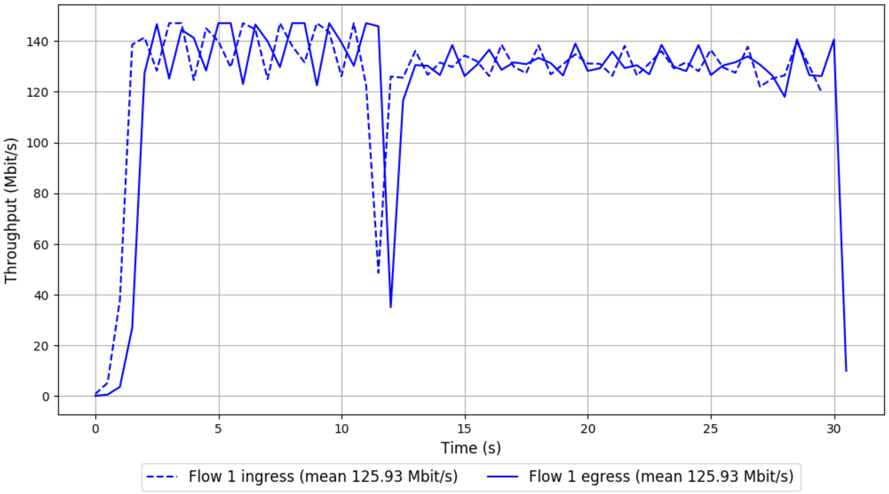
Run 9: Report of TCP BBR — Data Link

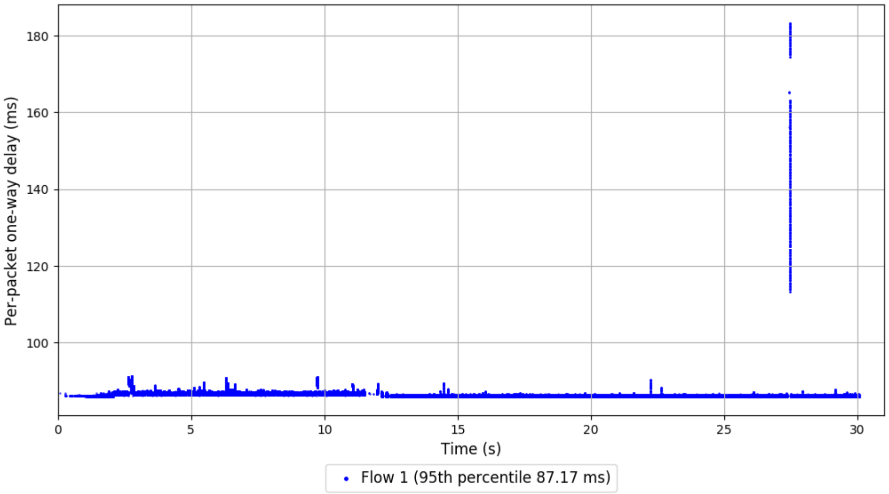




```
Run 10: Statistics of TCP BBR

Start at: 2018-05-24 02:49:28
End at: 2018-05-24 02:49:58
Local clock offset: 1.04 ms
Remote clock offset: 0.648 ms

# Below is generated by plot.py at 2018-05-24 03:15:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.93 Mbit/s
95th percentile per-packet one-way delay: 87.170 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 125.93 Mbit/s
95th percentile per-packet one-way delay: 87.170 ms
Loss rate: 0.00%
```

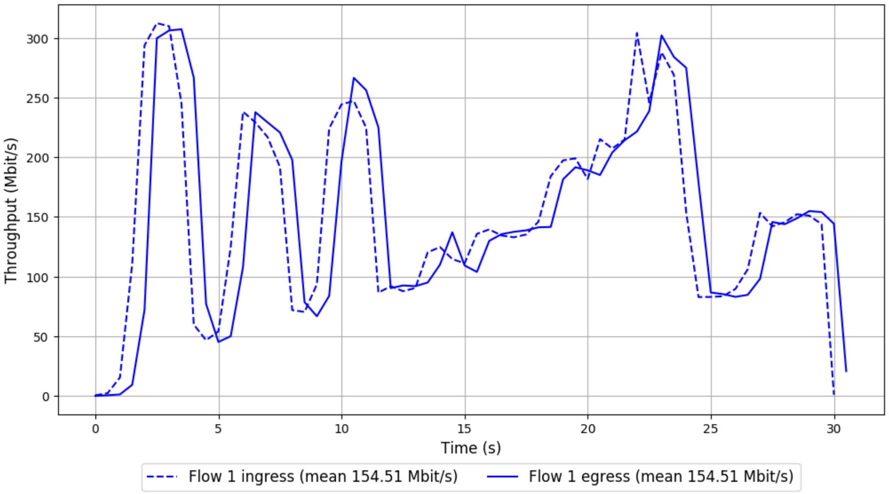
Run 10: Report of TCP BBR — Data Link

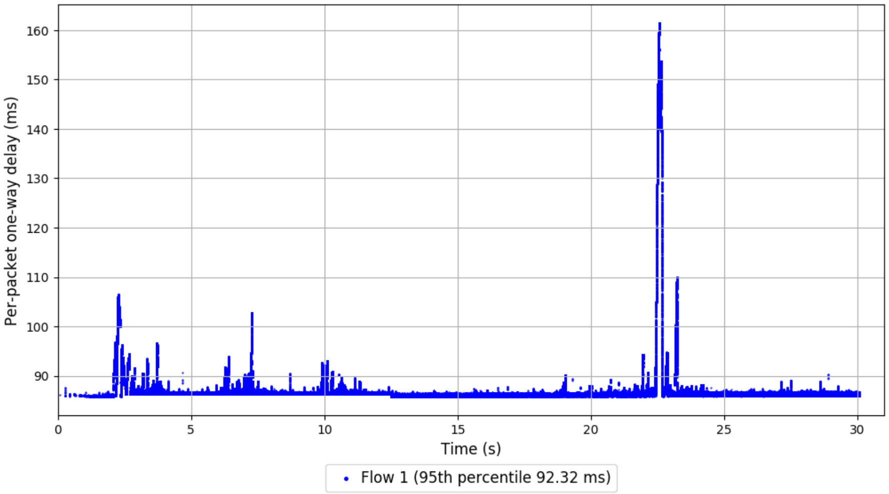




```
Run 1: Statistics of Copa

Start at: 2018-05-23 23:50:17
End at: 2018-05-23 23:50:47
Local clock offset: 14.634 ms
Remote clock offset: 11.494 ms

# Below is generated by plot.py at 2018-05-24 03:17:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.51 Mbit/s
95th percentile per-packet one-way delay: 92.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.51 Mbit/s
95th percentile per-packet one-way delay: 92.321 ms
Loss rate: 0.00%
```

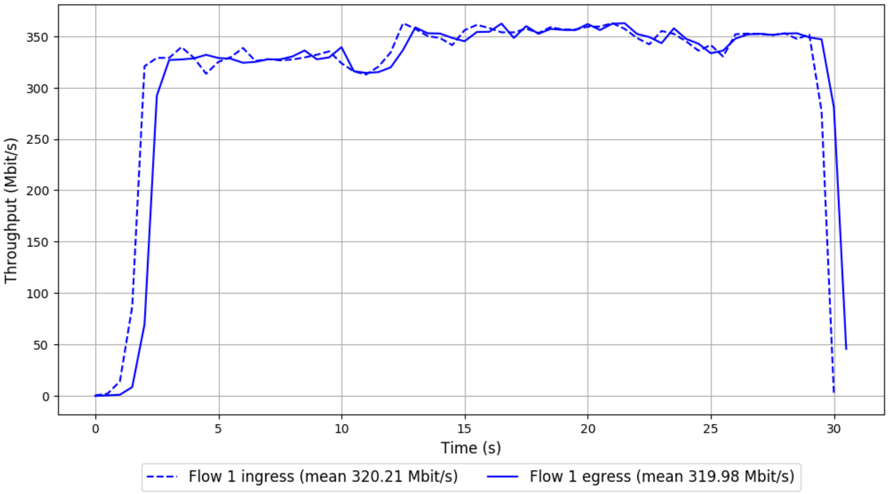
Run 1: Report of Copa — Data Link

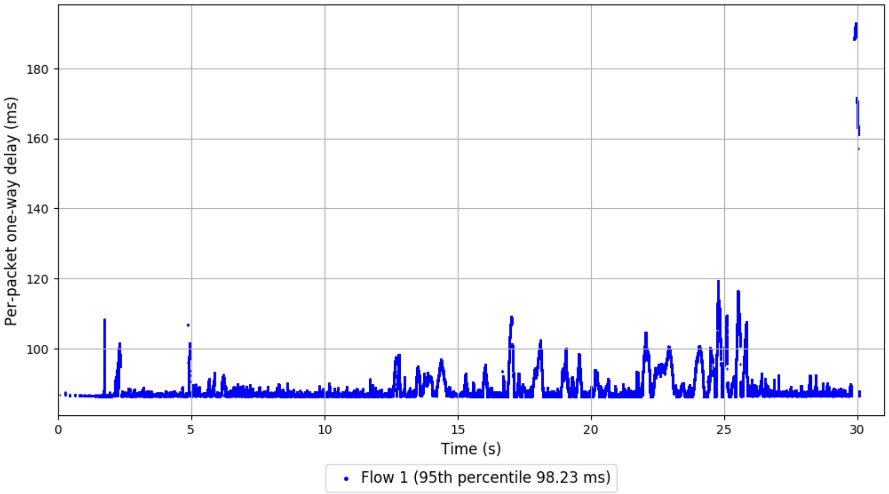




```
Run 2: Statistics of Copa

Start at: 2018-05-24 00:11:14
End at: 2018-05-24 00:11:44
Local clock offset: 21.507 ms
Remote clock offset: 17.179 ms

# Below is generated by plot.py at 2018-05-24 03:23:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.98 Mbit/s
95th percentile per-packet one-way delay: 98.232 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 319.98 Mbit/s
95th percentile per-packet one-way delay: 98.232 ms
Loss rate: 0.07%
```

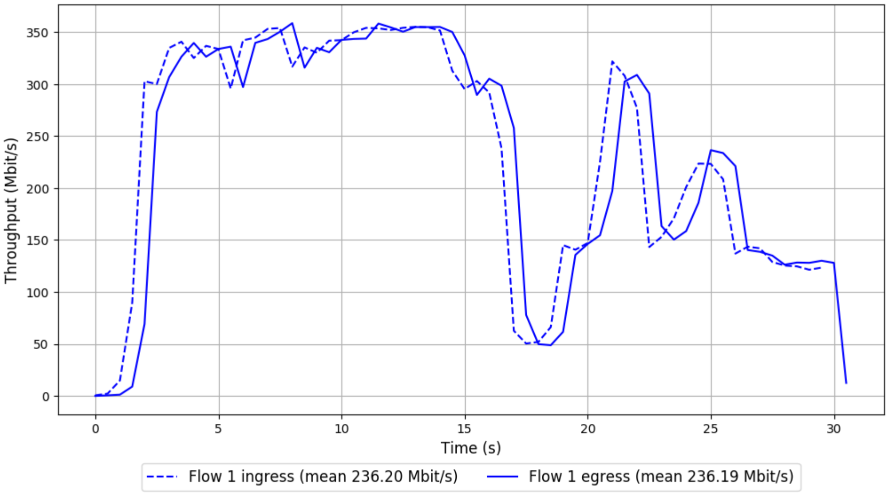
Run 2: Report of Copa — Data Link

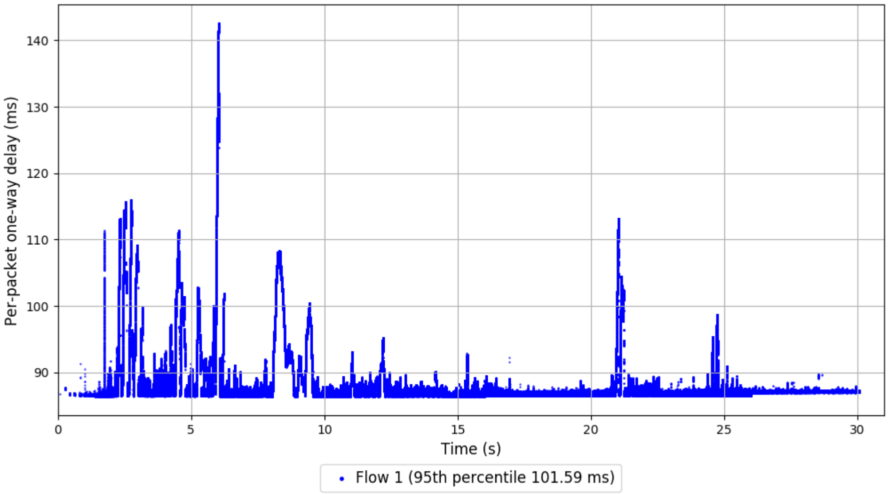




```
Run 3: Statistics of Copa

Start at: 2018-05-24 00:32:24
End at: 2018-05-24 00:32:54
Local clock offset: 37.415 ms
Remote clock offset: 29.804 ms

# Below is generated by plot.py at 2018-05-24 03:23:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 236.19 Mbit/s
95th percentile per-packet one-way delay: 101.591 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 236.19 Mbit/s
95th percentile per-packet one-way delay: 101.591 ms
Loss rate: 0.00%
```

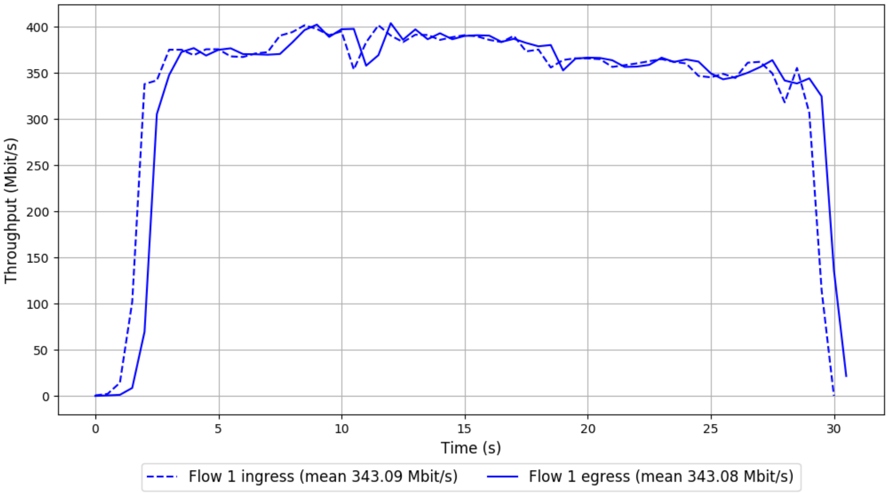
Run 3: Report of Copa — Data Link

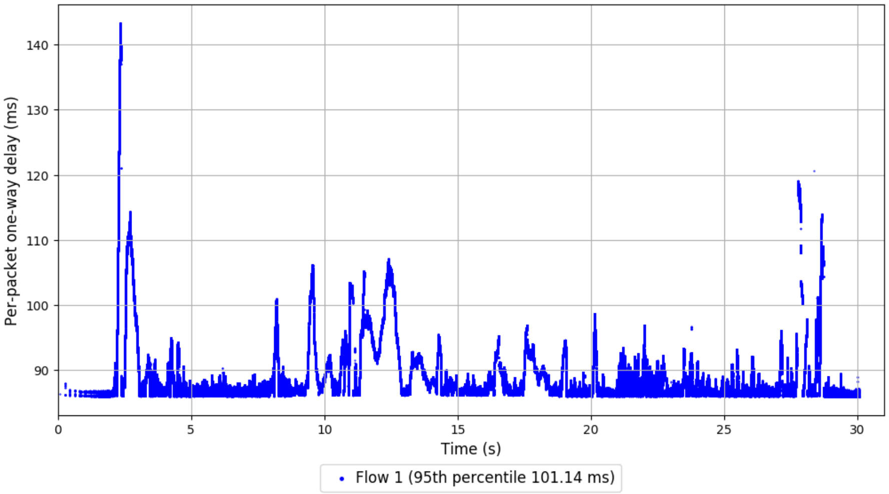




```
Run 4: Statistics of Copa

Start at: 2018-05-24 00:53:41
End at: 2018-05-24 00:54:11
Local clock offset: 16.66 ms
Remote clock offset: 13.27 ms

# Below is generated by plot.py at 2018-05-24 03:24:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 343.08 Mbit/s
95th percentile per-packet one-way delay: 101.137 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 343.08 Mbit/s
95th percentile per-packet one-way delay: 101.137 ms
Loss rate: 0.00%
```

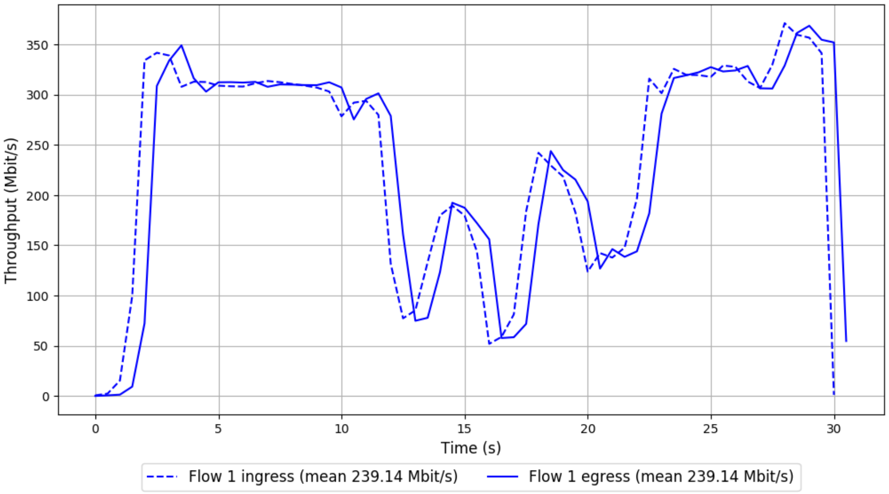
Run 4: Report of Copa — Data Link

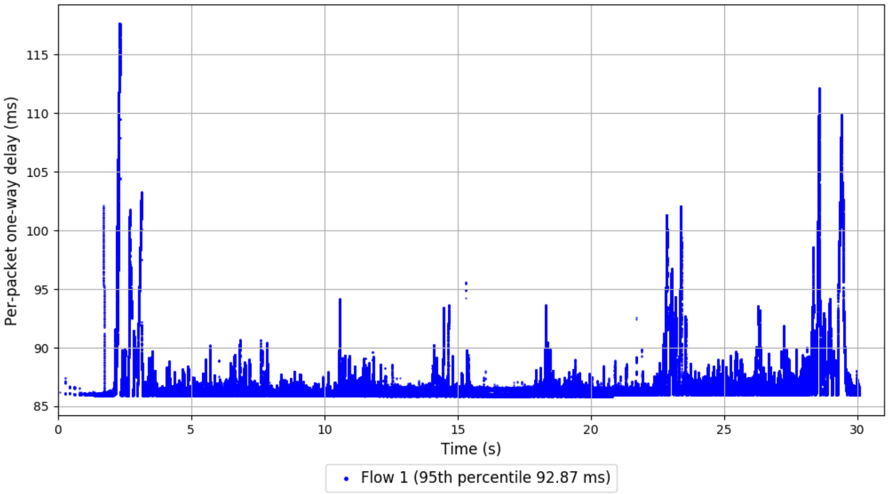




```
Run 5: Statistics of Copa

Start at: 2018-05-24 01:14:49
End at: 2018-05-24 01:15:19
Local clock offset: 16.332 ms
Remote clock offset: 13.243 ms

# Below is generated by plot.py at 2018-05-24 03:24:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 239.14 Mbit/s
95th percentile per-packet one-way delay: 92.870 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.14 Mbit/s
95th percentile per-packet one-way delay: 92.870 ms
Loss rate: 0.00%
```

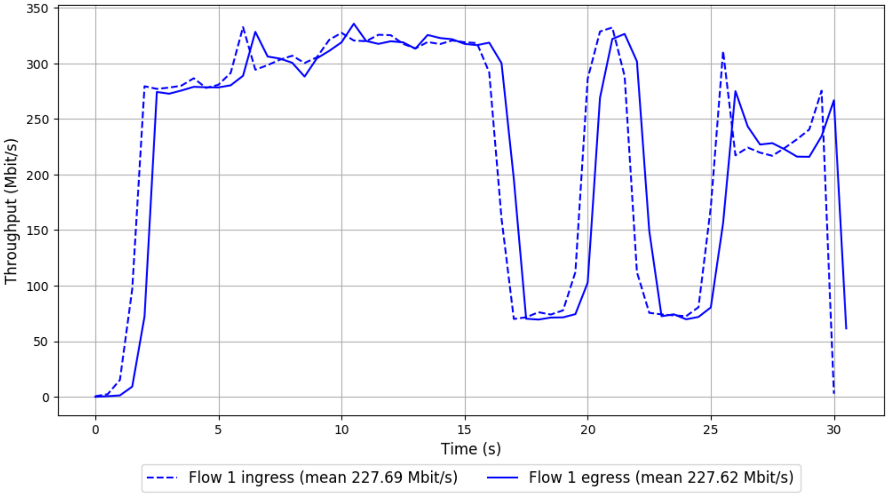
Run 5: Report of Copa — Data Link

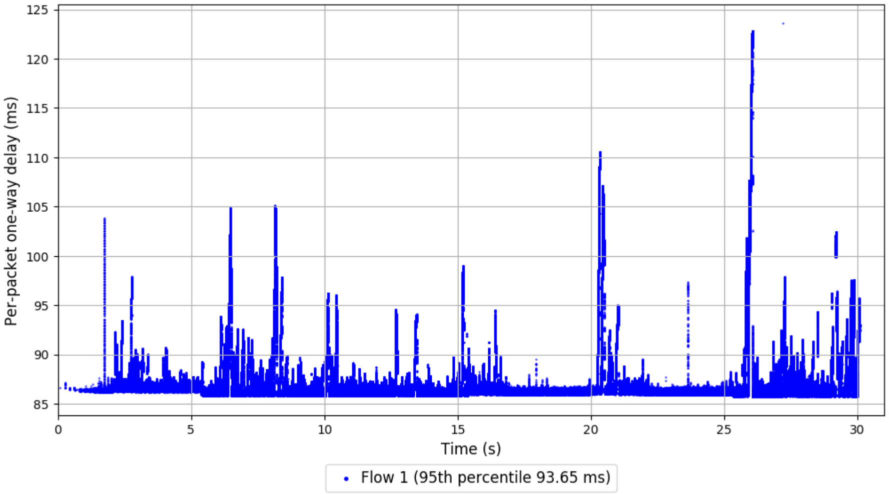




```
Run 6: Statistics of Copa

Start at: 2018-05-24 01:35:54
End at: 2018-05-24 01:36:24
Local clock offset: 8.701 ms
Remote clock offset: 6.817 ms

# Below is generated by plot.py at 2018-05-24 03:24:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.62 Mbit/s
95th percentile per-packet one-way delay: 93.654 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 227.62 Mbit/s
95th percentile per-packet one-way delay: 93.654 ms
Loss rate: 0.03%
```

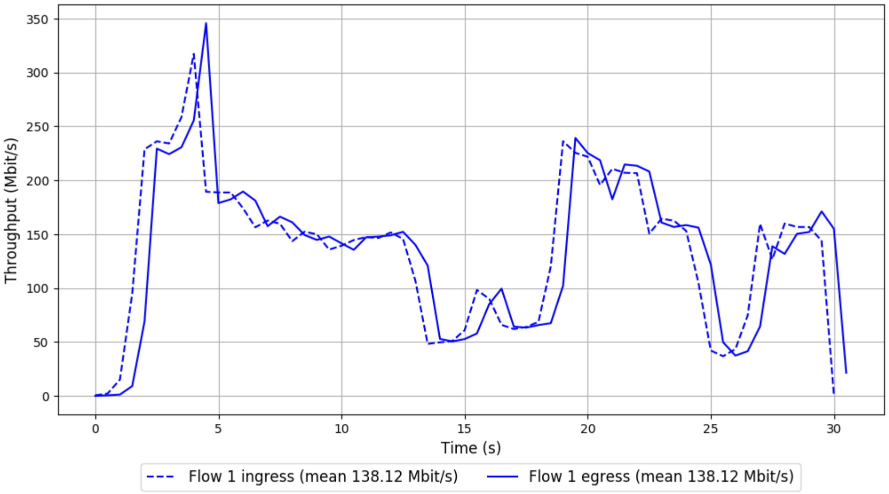
Run 6: Report of Copa — Data Link

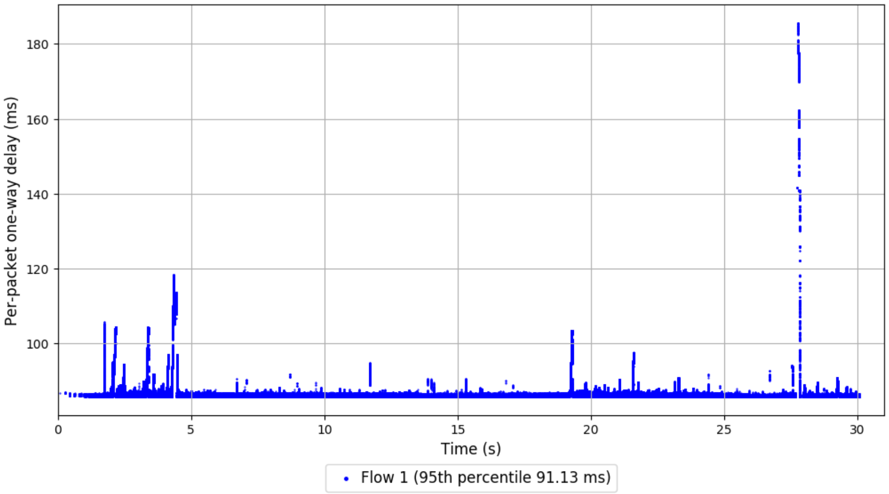




```
Run 7: Statistics of Copa

Start at: 2018-05-24 01:57:04
End at: 2018-05-24 01:57:34
Local clock offset: 3.471 ms
Remote clock offset: 2.868 ms

# Below is generated by plot.py at 2018-05-24 03:24:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 138.12 Mbit/s
95th percentile per-packet one-way delay: 91.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 138.12 Mbit/s
95th percentile per-packet one-way delay: 91.132 ms
Loss rate: 0.00%
```

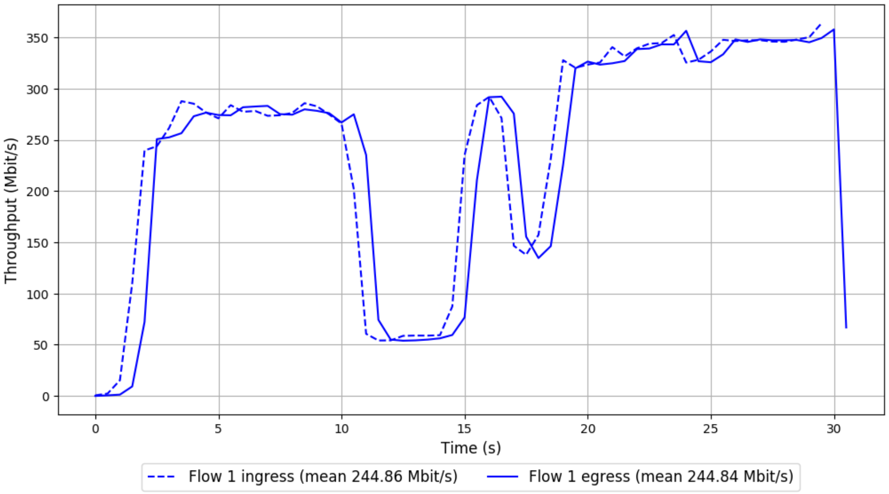
Run 7: Report of Copa — Data Link

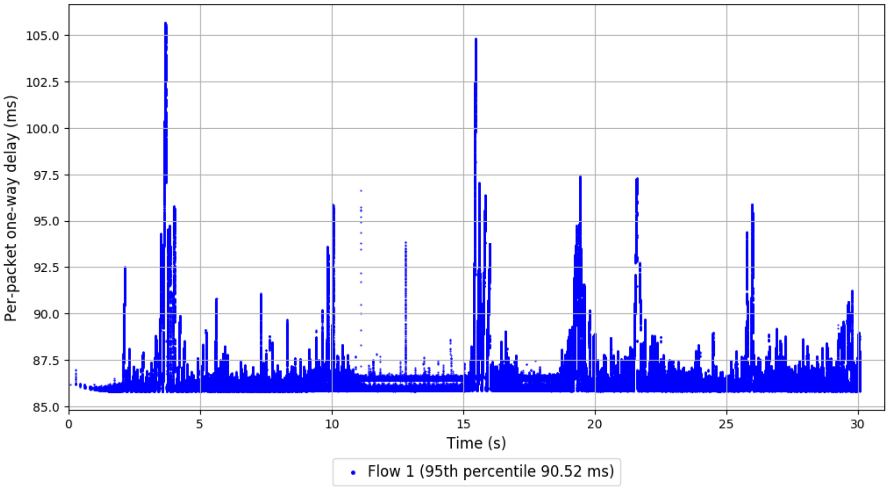




```
Run 8: Statistics of Copa

Start at: 2018-05-24 02:18:01
End at: 2018-05-24 02:18:31
Local clock offset: 2.334 ms
Remote clock offset: 1.845 ms

# Below is generated by plot.py at 2018-05-24 03:24:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 244.84 Mbit/s
95th percentile per-packet one-way delay: 90.515 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 244.84 Mbit/s
95th percentile per-packet one-way delay: 90.515 ms
Loss rate: 0.00%
```

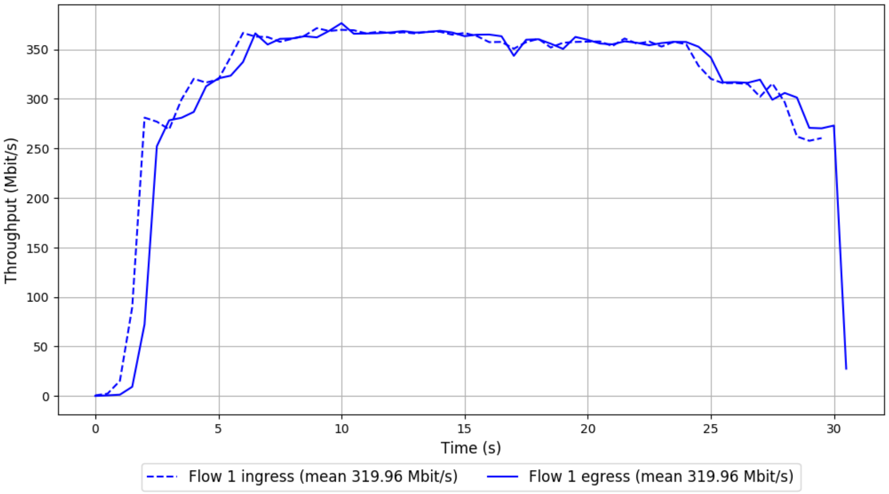
Run 8: Report of Copa — Data Link

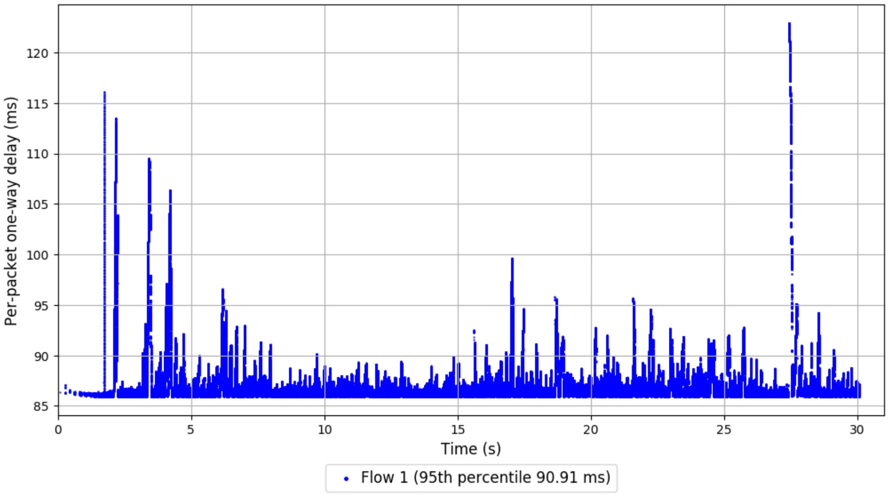




```
Run 9: Statistics of Copa

Start at: 2018-05-24 02:38:56
End at: 2018-05-24 02:39:26
Local clock offset: 0.757 ms
Remote clock offset: 0.534 ms

# Below is generated by plot.py at 2018-05-24 03:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 319.96 Mbit/s
95th percentile per-packet one-way delay: 90.912 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 319.96 Mbit/s
95th percentile per-packet one-way delay: 90.912 ms
Loss rate: 0.00%
```

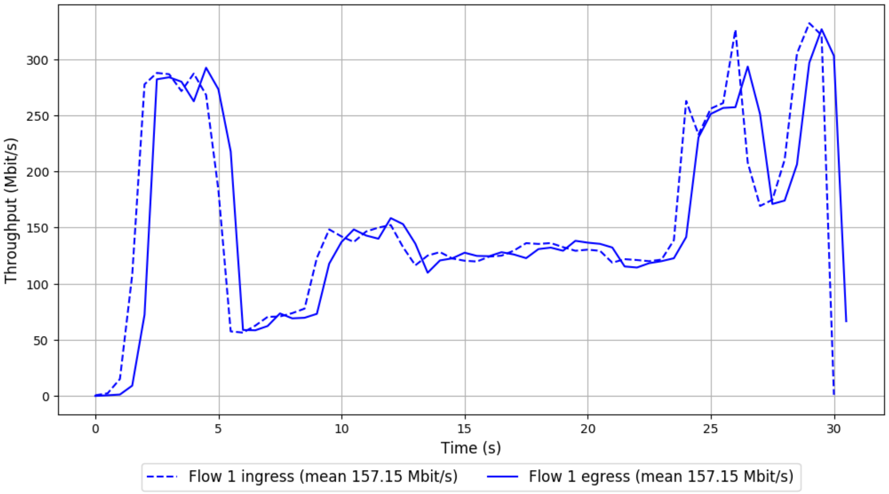
Run 9: Report of Copa — Data Link

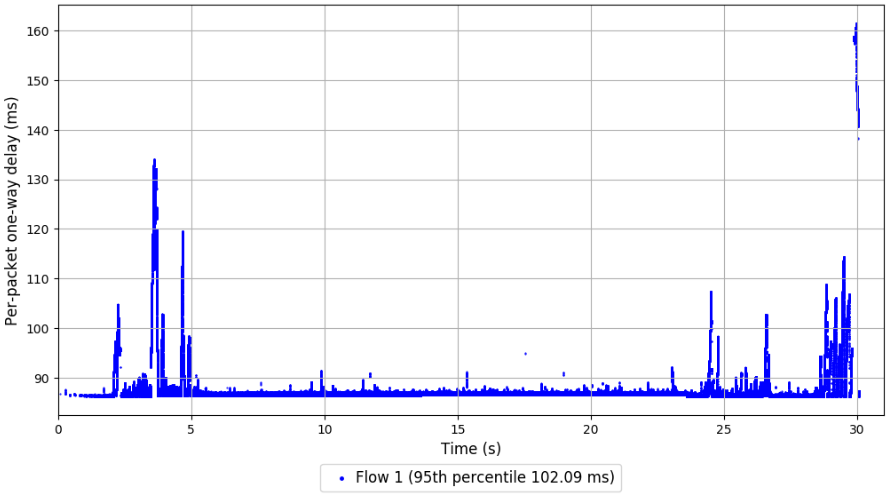




```
Run 10: Statistics of Copa

Start at: 2018-05-24 02:59:56
End at: 2018-05-24 03:00:26
Local clock offset: 0.367 ms
Remote clock offset: 0.472 ms

# Below is generated by plot.py at 2018-05-24 03:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 157.15 Mbit/s
95th percentile per-packet one-way delay: 102.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.15 Mbit/s
95th percentile per-packet one-way delay: 102.090 ms
Loss rate: 0.00%
```

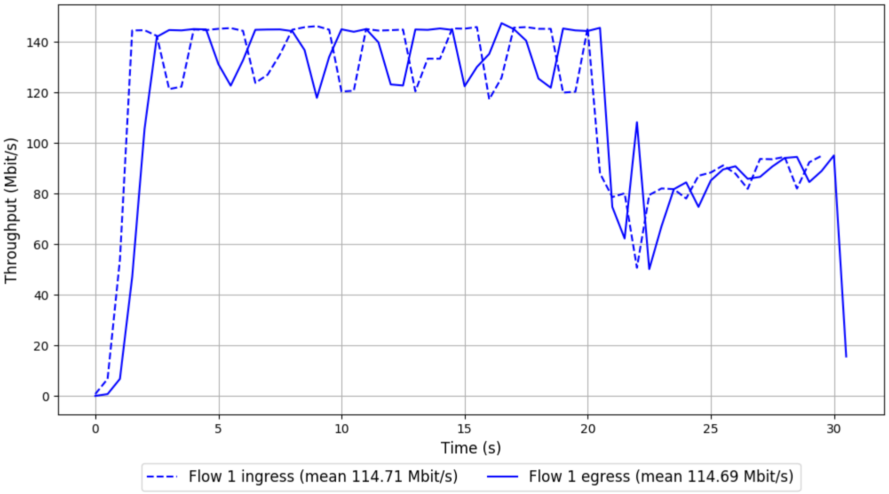
Run 10: Report of Copa — Data Link

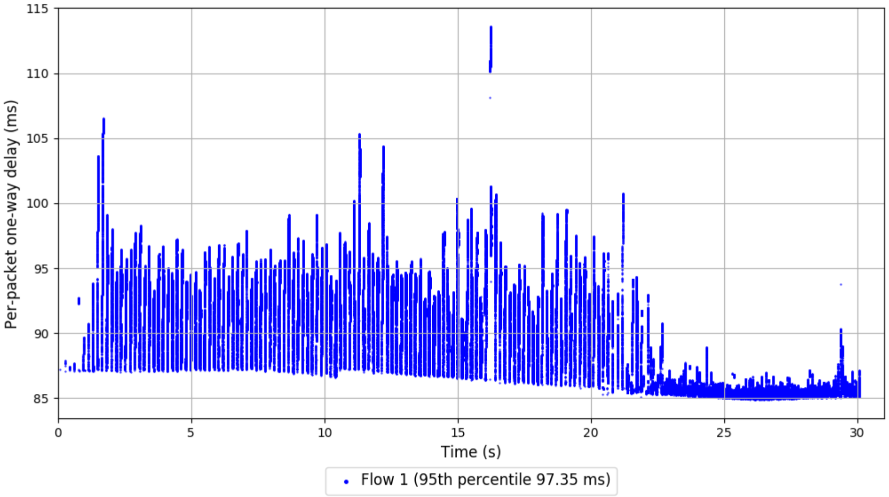




```
Run 1: Statistics of TCP Cubic

Start at: 2018-05-23 23:30:59
End at: 2018-05-23 23:31:29
Local clock offset: 3.645 ms
Remote clock offset: 2.204 ms

# Below is generated by plot.py at 2018-05-24 03:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 114.69 Mbit/s
95th percentile per-packet one-way delay: 97.346 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 114.69 Mbit/s
95th percentile per-packet one-way delay: 97.346 ms
Loss rate: 0.02%
```

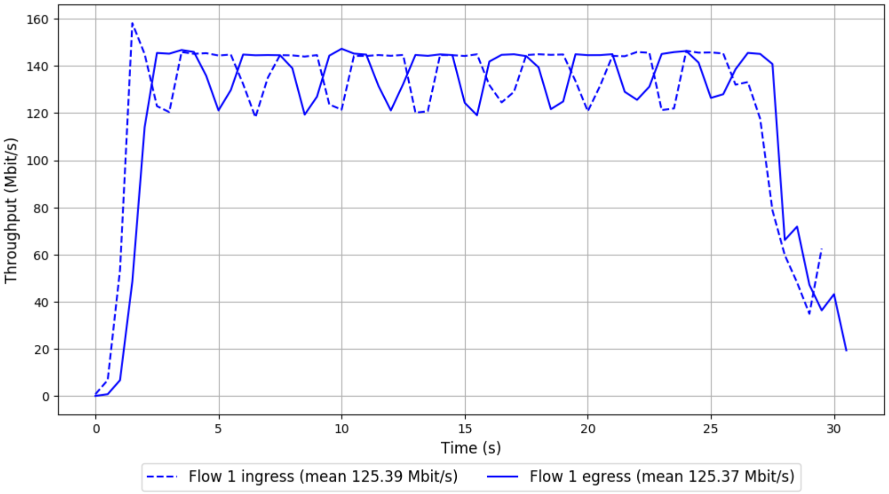
Run 1: Report of TCP Cubic — Data Link

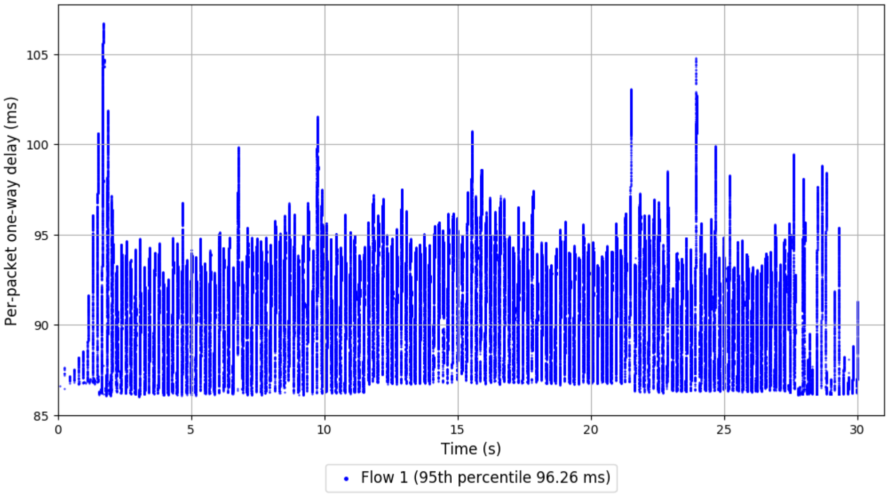




```
Run 2: Statistics of TCP Cubic

Start at: 2018-05-23 23:51:38
End at: 2018-05-23 23:52:08
Local clock offset: 14.635 ms
Remote clock offset: 11.518 ms

# Below is generated by plot.py at 2018-05-24 03:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 125.37 Mbit/s
95th percentile per-packet one-way delay: 96.260 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 125.37 Mbit/s
95th percentile per-packet one-way delay: 96.260 ms
Loss rate: 0.00%
```

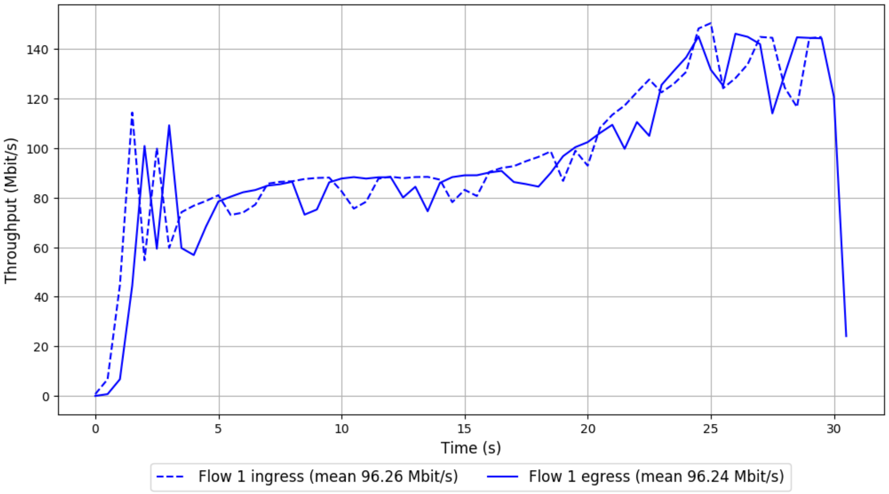
Run 2: Report of TCP Cubic — Data Link

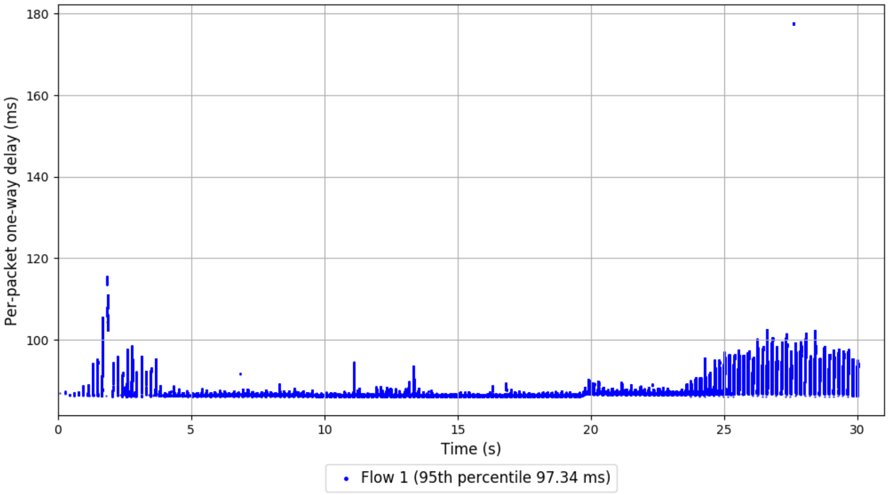




```
Run 3: Statistics of TCP Cubic

Start at: 2018-05-24 00:12:50
End at: 2018-05-24 00:13:20
Local clock offset: 21.498 ms
Remote clock offset: 17.176 ms

# Below is generated by plot.py at 2018-05-24 03:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 97.337 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 96.24 Mbit/s
95th percentile per-packet one-way delay: 97.337 ms
Loss rate: 0.00%
```

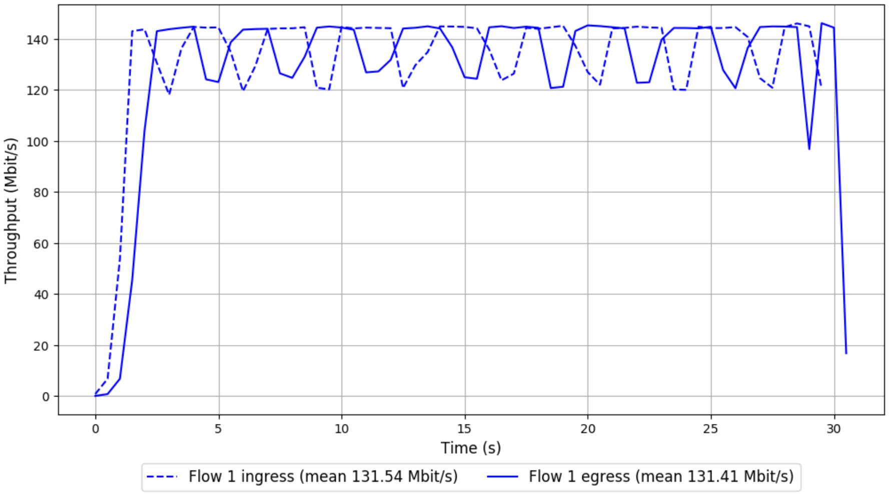
Run 3: Report of TCP Cubic — Data Link

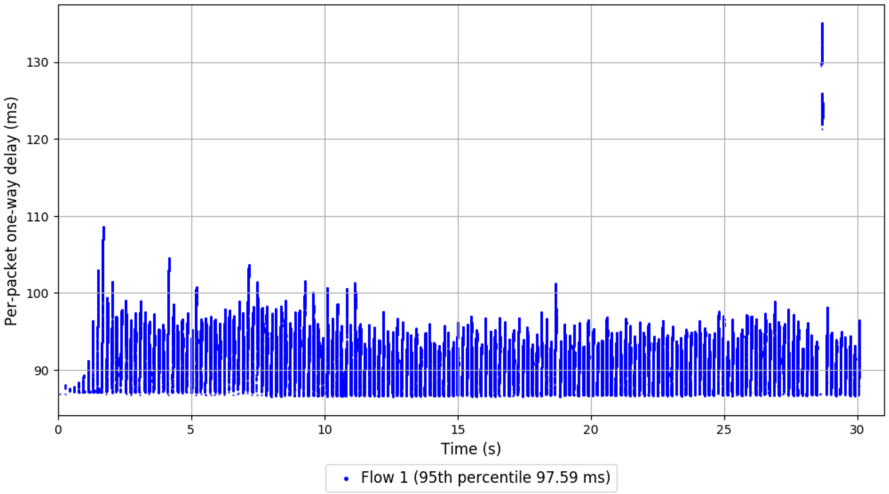




```
Run 4: Statistics of TCP Cubic

Start at: 2018-05-24 00:33:52
End at: 2018-05-24 00:34:22
Local clock offset: 39.102 ms
Remote clock offset: 31.175 ms

# Below is generated by plot.py at 2018-05-24 03:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.41 Mbit/s
95th percentile per-packet one-way delay: 97.586 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 131.41 Mbit/s
95th percentile per-packet one-way delay: 97.586 ms
Loss rate: 0.09%
```

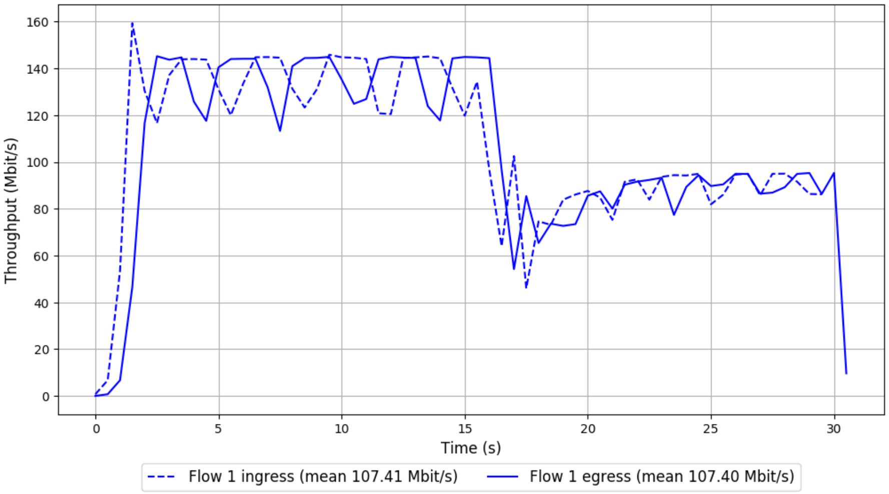
Run 4: Report of TCP Cubic — Data Link

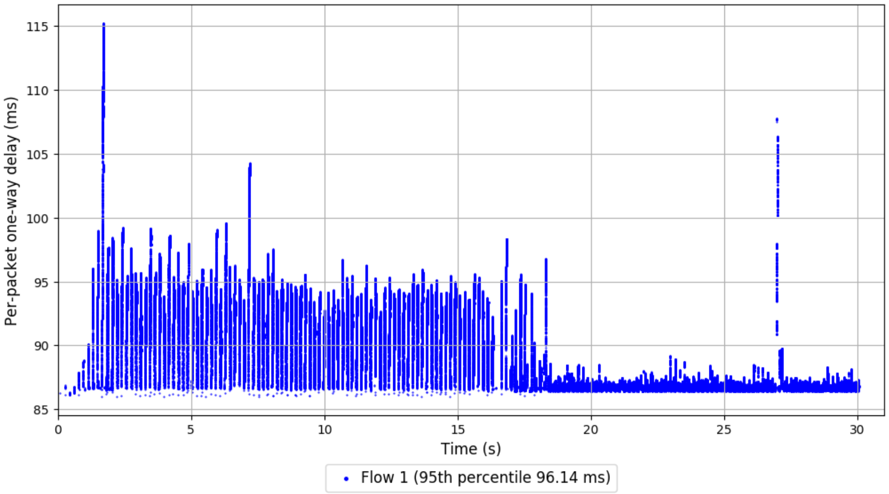




```
Run 5: Statistics of TCP Cubic

Start at: 2018-05-24 00:55:19
End at: 2018-05-24 00:55:49
Local clock offset: 16.811 ms
Remote clock offset: 13.173 ms

# Below is generated by plot.py at 2018-05-24 03:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 107.40 Mbit/s
95th percentile per-packet one-way delay: 96.141 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.40 Mbit/s
95th percentile per-packet one-way delay: 96.141 ms
Loss rate: 0.00%
```

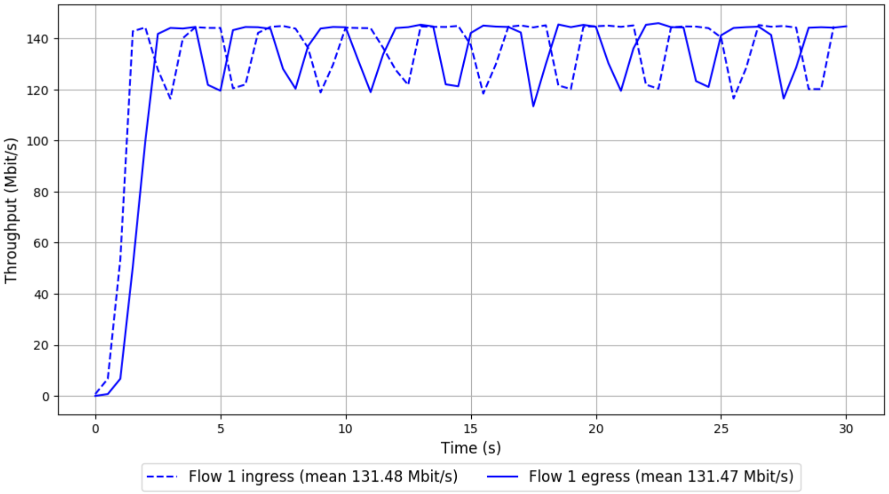
Run 5: Report of TCP Cubic — Data Link

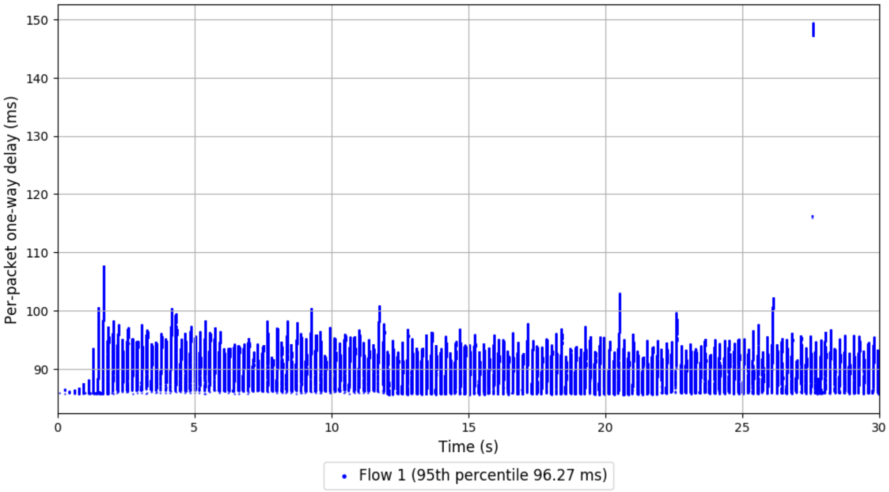




```
Run 6: Statistics of TCP Cubic

Start at: 2018-05-24 01:16:18
End at: 2018-05-24 01:16:48
Local clock offset: 14.471 ms
Remote clock offset: 11.421 ms

# Below is generated by plot.py at 2018-05-24 03:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.47 Mbit/s
95th percentile per-packet one-way delay: 96.267 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.47 Mbit/s
95th percentile per-packet one-way delay: 96.267 ms
Loss rate: 0.00%
```

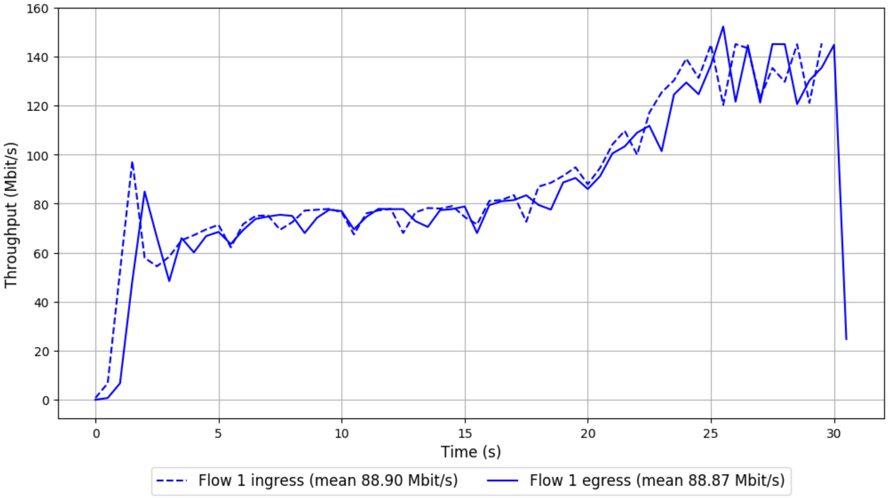
Run 6: Report of TCP Cubic — Data Link

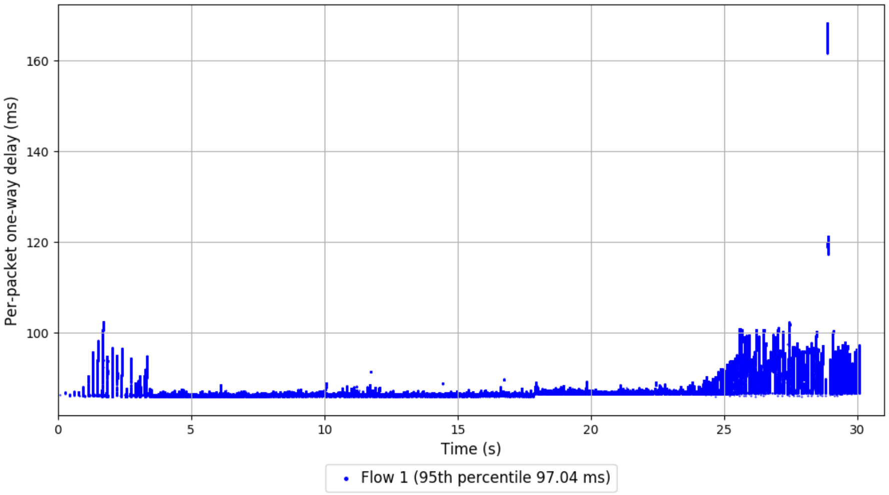




```
Run 7: Statistics of TCP Cubic

Start at: 2018-05-24 01:37:22
End at: 2018-05-24 01:37:52
Local clock offset: 8.874 ms
Remote clock offset: 7.018 ms

# Below is generated by plot.py at 2018-05-24 03:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.87 Mbit/s
95th percentile per-packet one-way delay: 97.041 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.87 Mbit/s
95th percentile per-packet one-way delay: 97.041 ms
Loss rate: 0.00%
```

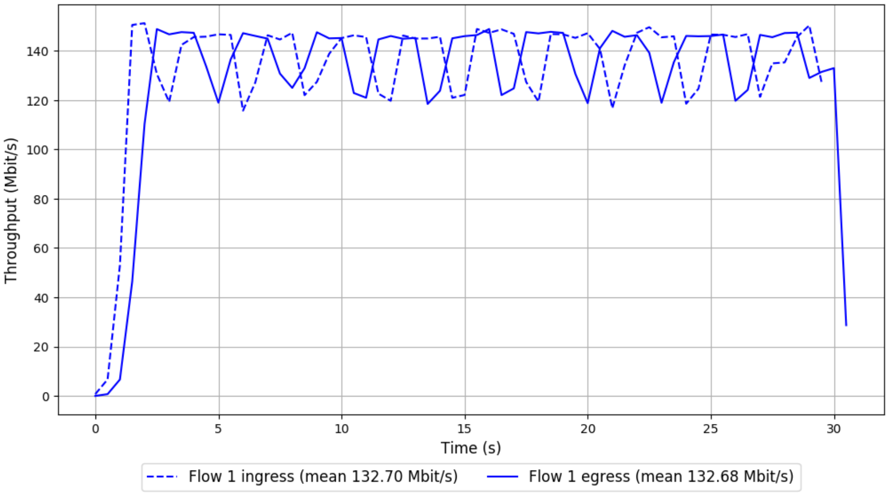
Run 7: Report of TCP Cubic — Data Link

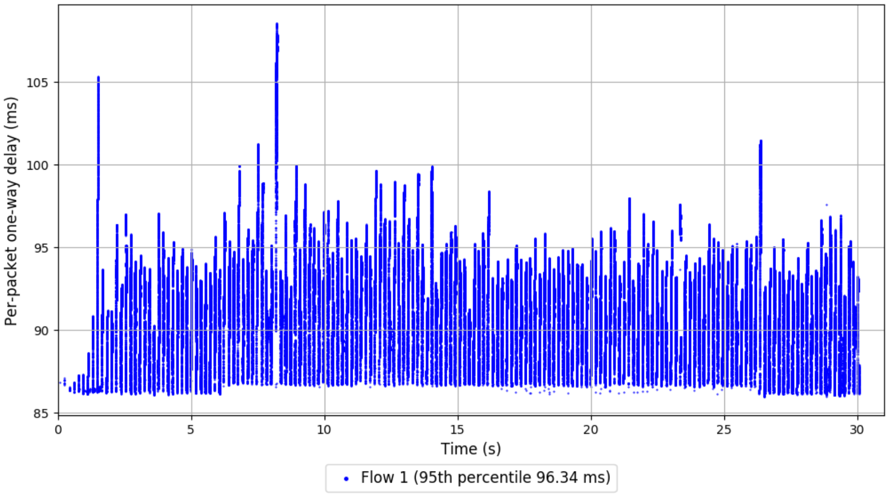




```
Run 8: Statistics of TCP Cubic

Start at: 2018-05-24 01:58:23
End at: 2018-05-24 01:58:53
Local clock offset: 3.141 ms
Remote clock offset: 2.644 ms

# Below is generated by plot.py at 2018-05-24 03:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.68 Mbit/s
95th percentile per-packet one-way delay: 96.341 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 132.68 Mbit/s
95th percentile per-packet one-way delay: 96.341 ms
Loss rate: 0.01%
```

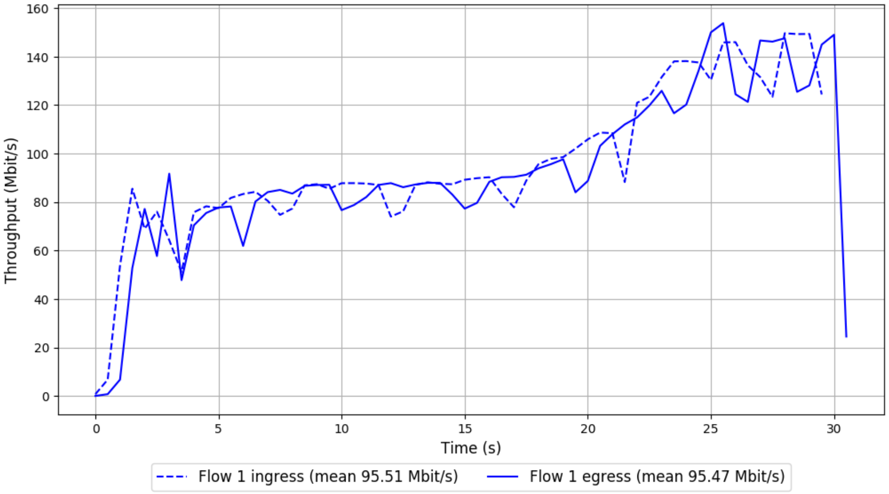
Run 8: Report of TCP Cubic — Data Link

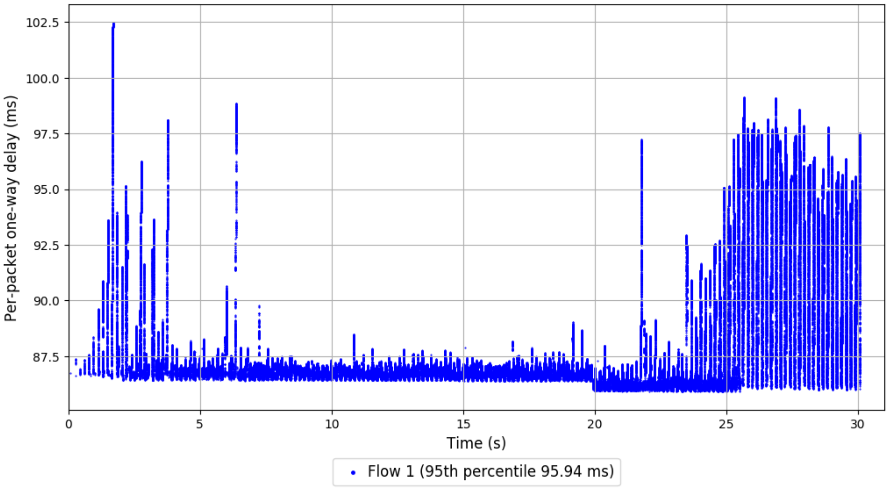




```
Run 9: Statistics of TCP Cubic

Start at: 2018-05-24 02:19:30
End at: 2018-05-24 02:20:00
Local clock offset: 2.367 ms
Remote clock offset: 1.913 ms

# Below is generated by plot.py at 2018-05-24 03:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 95.937 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 95.47 Mbit/s
95th percentile per-packet one-way delay: 95.937 ms
Loss rate: 0.01%
```

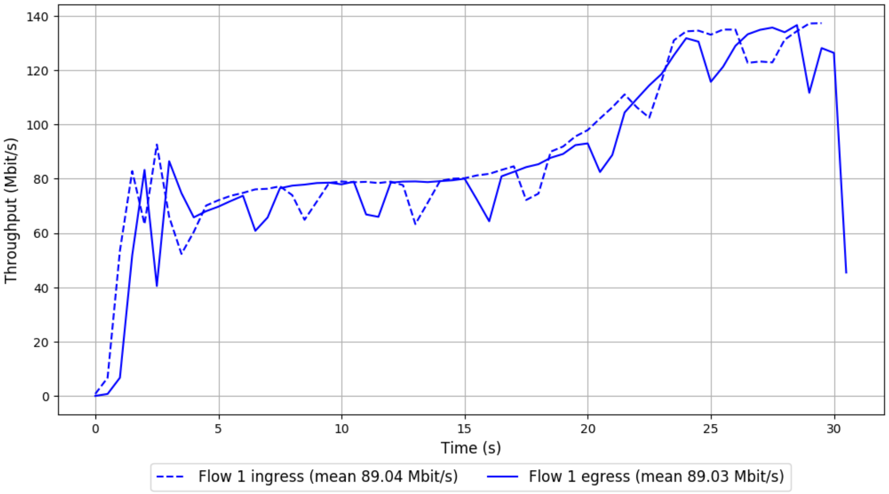
Run 9: Report of TCP Cubic — Data Link

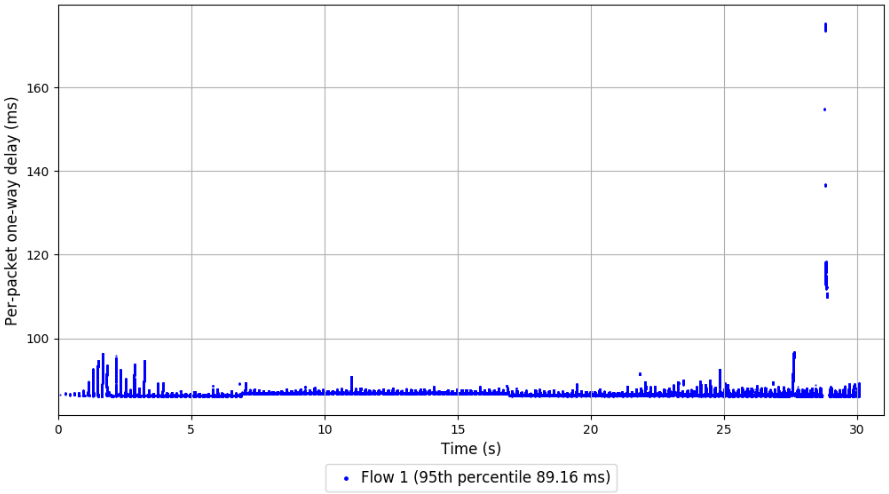




```
Run 10: Statistics of TCP Cubic

Start at: 2018-05-24 02:40:33
End at: 2018-05-24 02:41:03
Local clock offset: 0.677 ms
Remote clock offset: 0.589 ms

# Below is generated by plot.py at 2018-05-24 03:28:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.03 Mbit/s
95th percentile per-packet one-way delay: 89.158 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 89.03 Mbit/s
95th percentile per-packet one-way delay: 89.158 ms
Loss rate: 0.00%
```

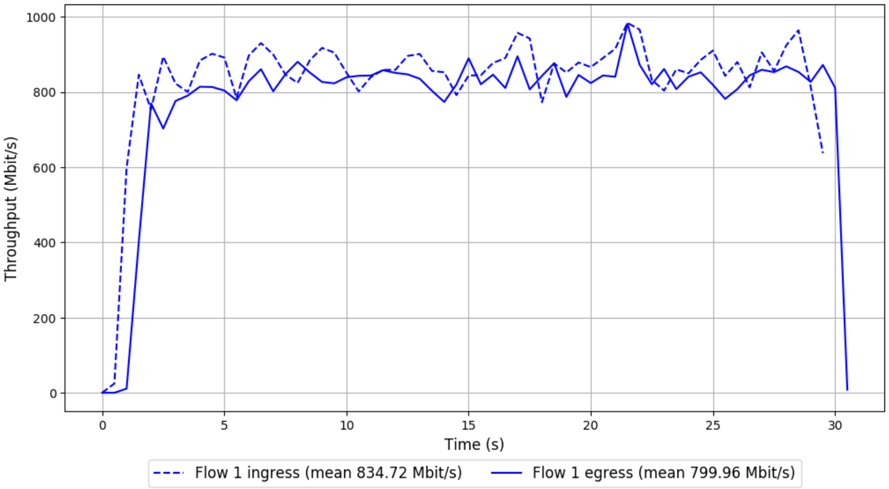
Run 10: Report of TCP Cubic — Data Link

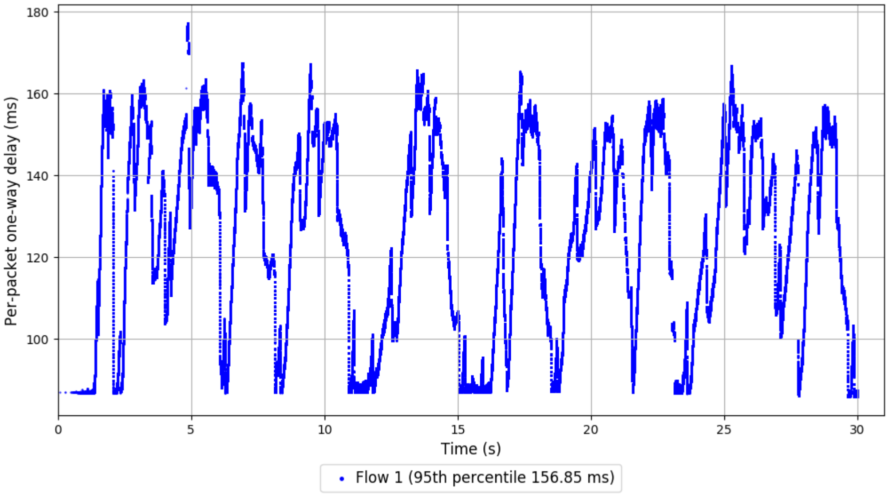




```
Run 1: Statistics of FillP

Start at: 2018-05-23 23:37:12
End at: 2018-05-23 23:37:42
Local clock offset: 10.987 ms
Remote clock offset: 8.545 ms

# Below is generated by plot.py at 2018-05-24 03:40:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 799.96 Mbit/s
95th percentile per-packet one-way delay: 156.850 ms
Loss rate: 4.16%
-- Flow 1:
Average throughput: 799.96 Mbit/s
95th percentile per-packet one-way delay: 156.850 ms
Loss rate: 4.16%
```

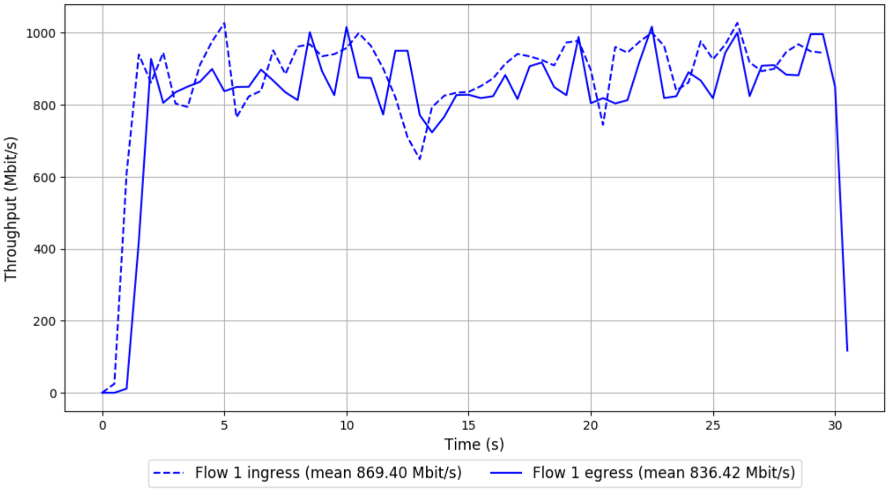
Run 1: Report of FillP — Data Link

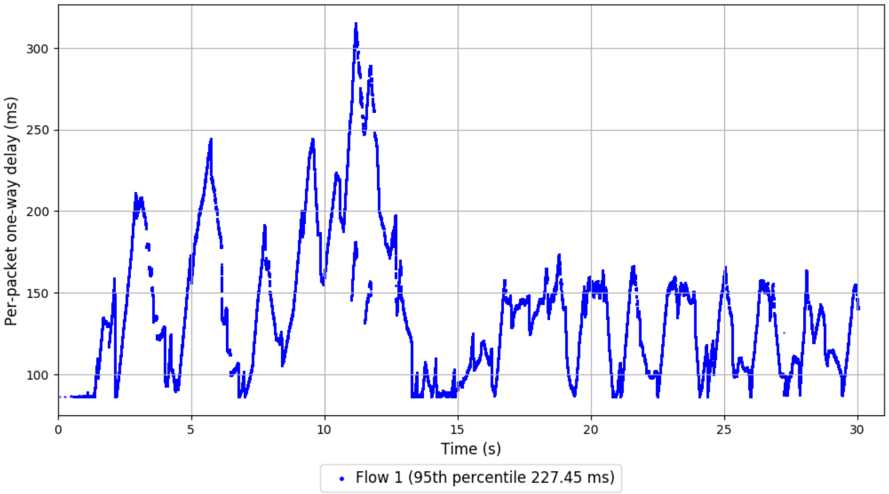




```
Run 2: Statistics of FillP

Start at: 2018-05-23 23:57:43
End at: 2018-05-23 23:58:13
Local clock offset: 20.646 ms
Remote clock offset: 16.125 ms

# Below is generated by plot.py at 2018-05-24 03:42:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 836.42 Mbit/s
95th percentile per-packet one-way delay: 227.449 ms
Loss rate: 3.79%
-- Flow 1:
Average throughput: 836.42 Mbit/s
95th percentile per-packet one-way delay: 227.449 ms
Loss rate: 3.79%
```

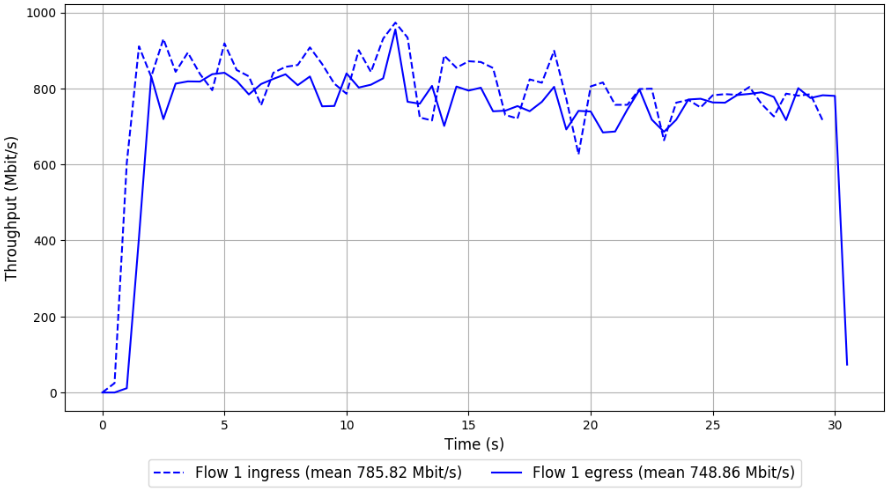
Run 2: Report of FillP — Data Link

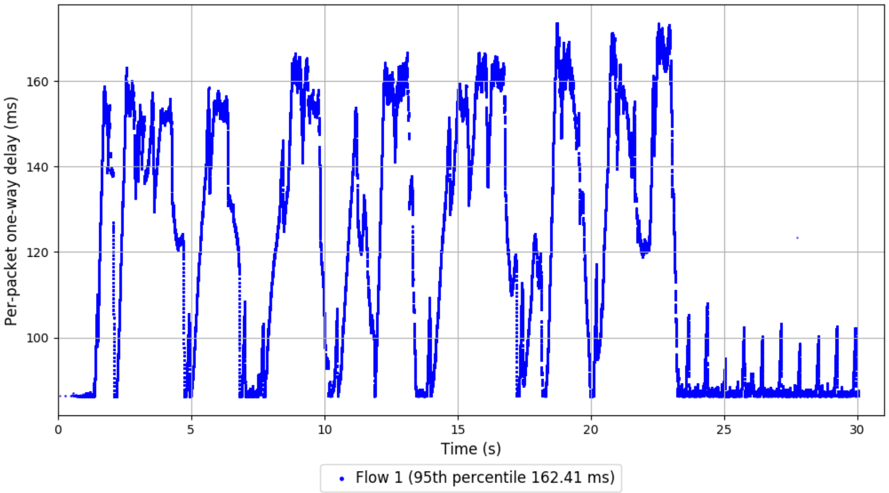




```
Run 3: Statistics of FillP

Start at: 2018-05-24 00:19:01
End at: 2018-05-24 00:19:31
Local clock offset: 24.267 ms
Remote clock offset: 19.366 ms

# Below is generated by plot.py at 2018-05-24 03:42:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 748.86 Mbit/s
95th percentile per-packet one-way delay: 162.409 ms
Loss rate: 4.70%
-- Flow 1:
Average throughput: 748.86 Mbit/s
95th percentile per-packet one-way delay: 162.409 ms
Loss rate: 4.70%
```

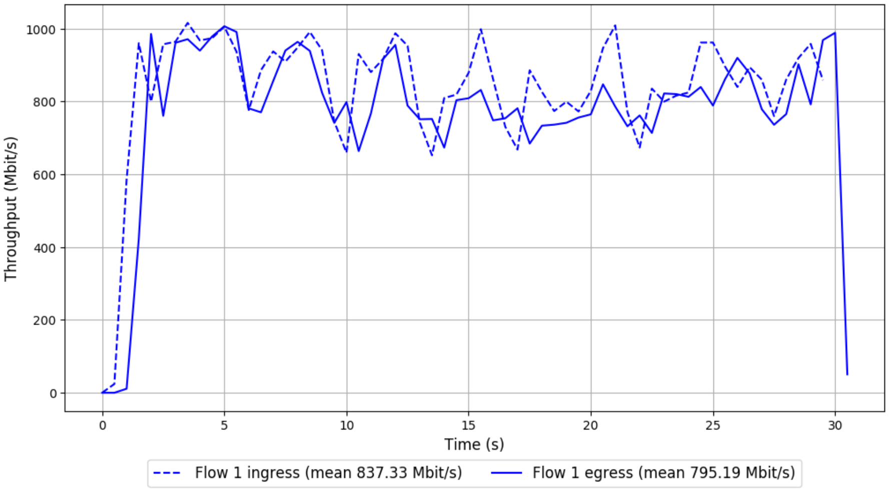
Run 3: Report of FillP — Data Link

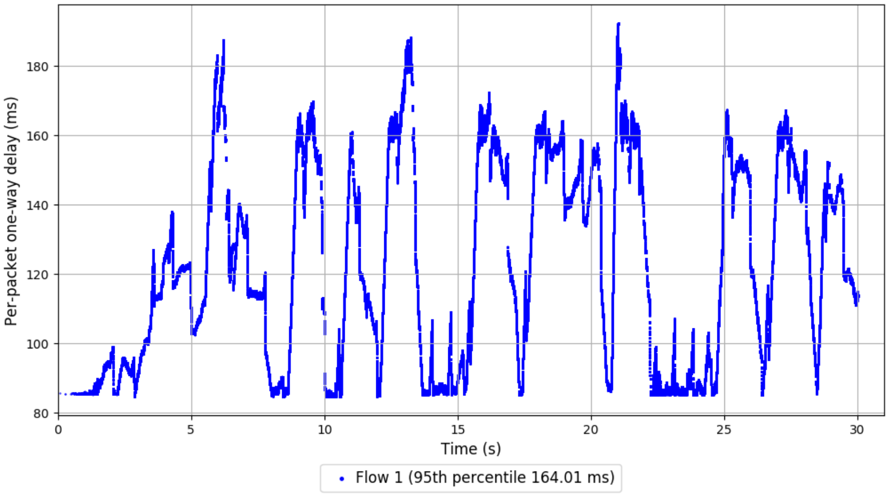




```
Run 4: Statistics of FillP

Start at: 2018-05-24 00:40:07
End at: 2018-05-24 00:40:37
Local clock offset: 34.79 ms
Remote clock offset: 27.679 ms

# Below is generated by plot.py at 2018-05-24 03:42:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 795.19 Mbit/s
95th percentile per-packet one-way delay: 164.008 ms
Loss rate: 5.03%
-- Flow 1:
Average throughput: 795.19 Mbit/s
95th percentile per-packet one-way delay: 164.008 ms
Loss rate: 5.03%
```

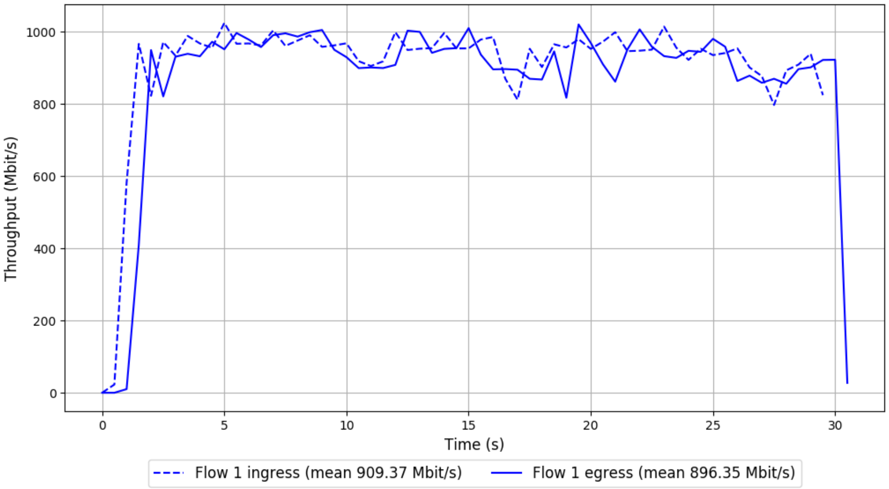
Run 4: Report of FillP — Data Link

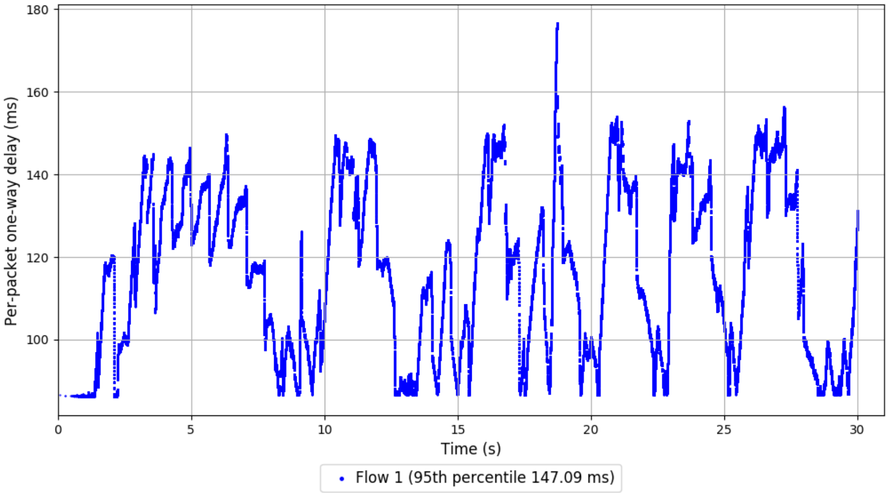




```
Run 5: Statistics of FillP

Start at: 2018-05-24 01:01:22
End at: 2018-05-24 01:01:52
Local clock offset: 17.796 ms
Remote clock offset: 13.966 ms

# Below is generated by plot.py at 2018-05-24 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 896.35 Mbit/s
95th percentile per-packet one-way delay: 147.089 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 896.35 Mbit/s
95th percentile per-packet one-way delay: 147.089 ms
Loss rate: 1.43%
```

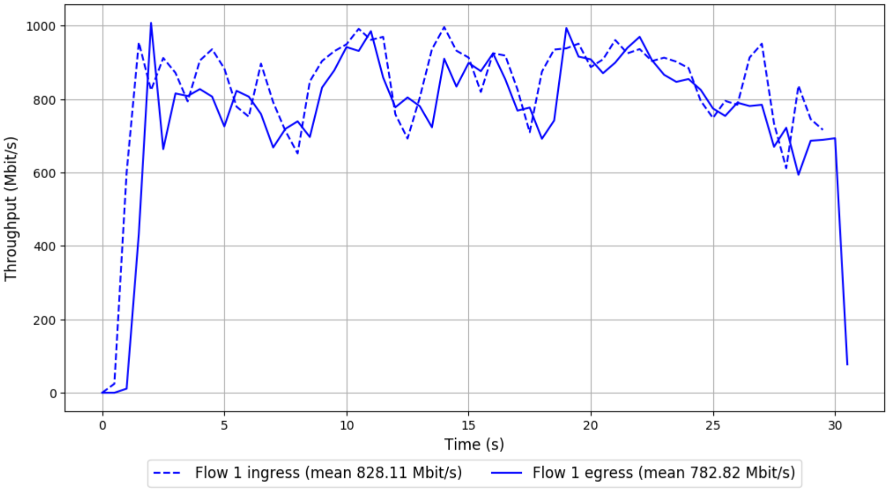
Run 5: Report of FillP — Data Link

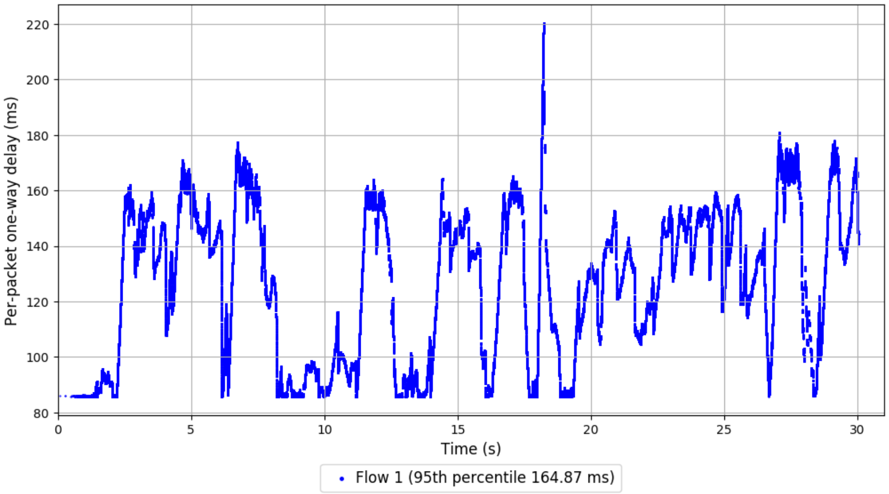




```
Run 6: Statistics of FillP

Start at: 2018-05-24 01:22:32
End at: 2018-05-24 01:23:02
Local clock offset: 9.683 ms
Remote clock offset: 7.586 ms

# Below is generated by plot.py at 2018-05-24 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 782.82 Mbit/s
95th percentile per-packet one-way delay: 164.866 ms
Loss rate: 5.47%
-- Flow 1:
Average throughput: 782.82 Mbit/s
95th percentile per-packet one-way delay: 164.866 ms
Loss rate: 5.47%
```

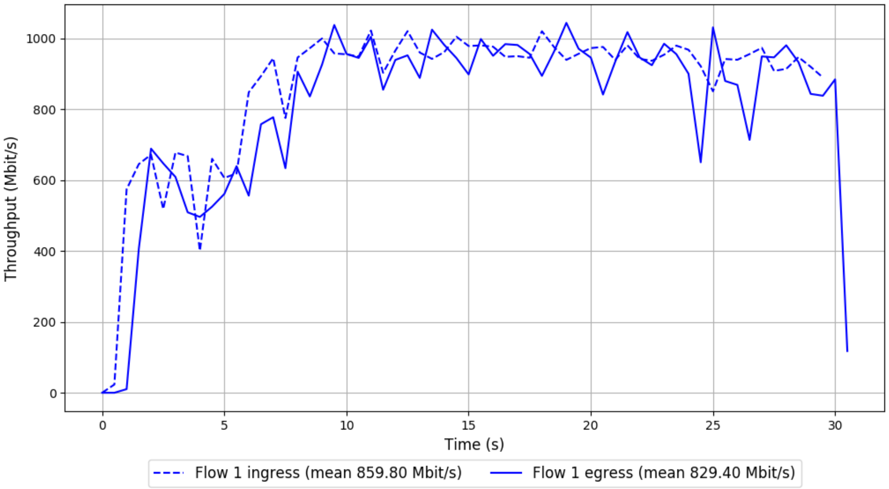
Run 6: Report of FillP — Data Link

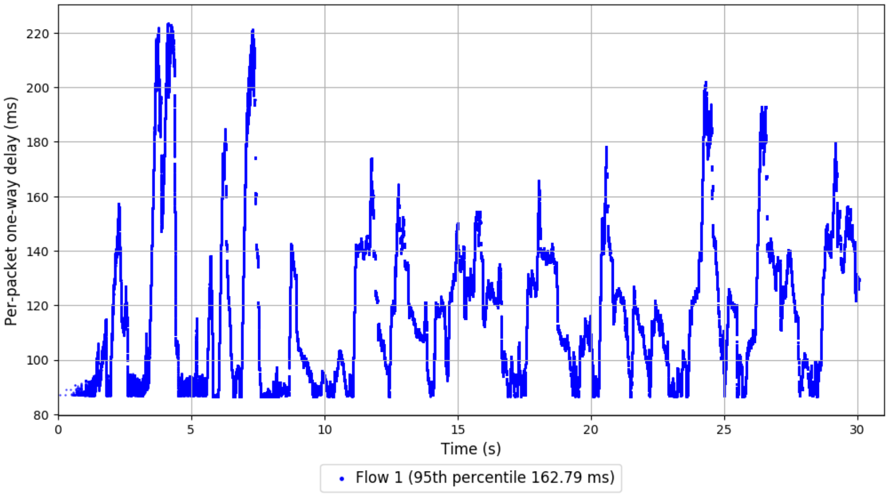




```
Run 7: Statistics of FillP

Start at: 2018-05-24 01:43:34
End at: 2018-05-24 01:44:04
Local clock offset: 9.595 ms
Remote clock offset: 8.062 ms

# Below is generated by plot.py at 2018-05-24 03:44:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 829.40 Mbit/s
95th percentile per-packet one-way delay: 162.792 ms
Loss rate: 3.53%
-- Flow 1:
Average throughput: 829.40 Mbit/s
95th percentile per-packet one-way delay: 162.792 ms
Loss rate: 3.53%
```

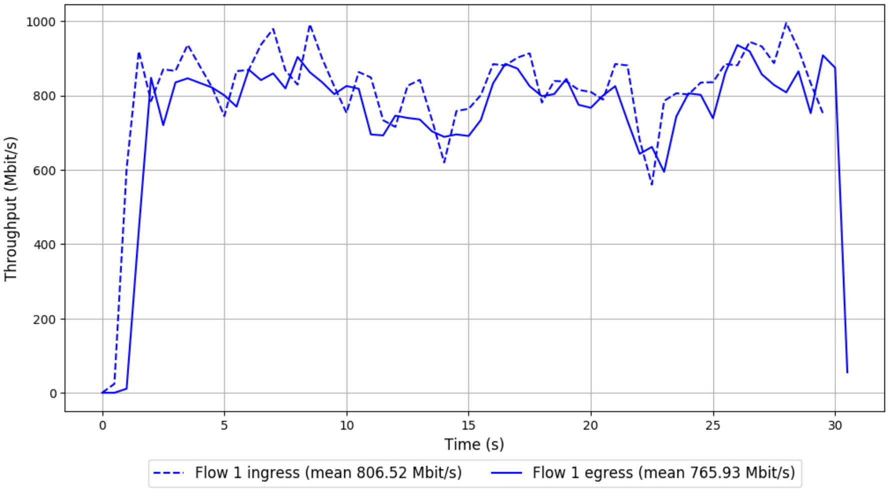
Run 7: Report of FillP — Data Link

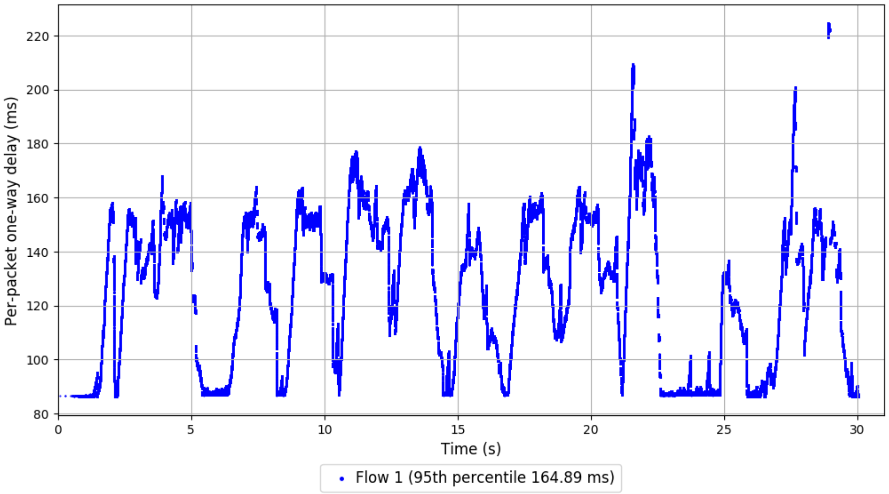




```
Run 8: Statistics of FillP

Start at: 2018-05-24 02:04:35
End at: 2018-05-24 02:05:05
Local clock offset: 1.984 ms
Remote clock offset: 1.909 ms

# Below is generated by plot.py at 2018-05-24 03:45:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 765.93 Mbit/s
95th percentile per-packet one-way delay: 164.892 ms
Loss rate: 5.03%
-- Flow 1:
Average throughput: 765.93 Mbit/s
95th percentile per-packet one-way delay: 164.892 ms
Loss rate: 5.03%
```

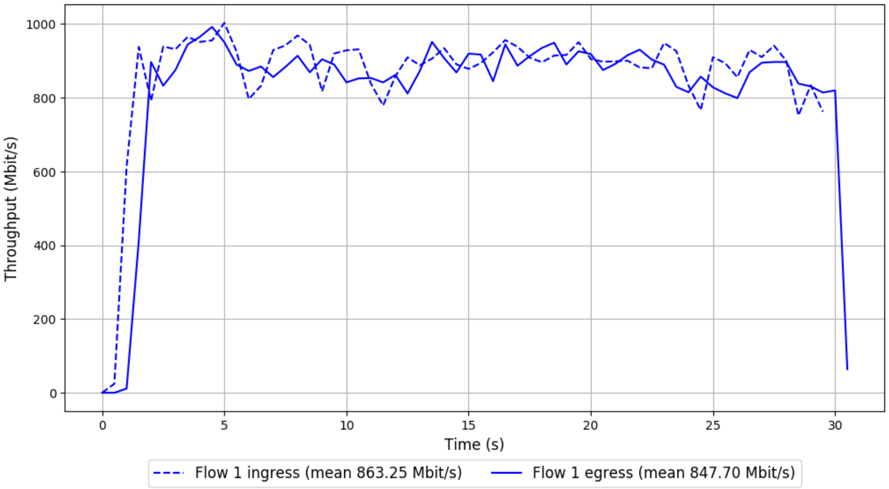
Run 8: Report of FillP — Data Link

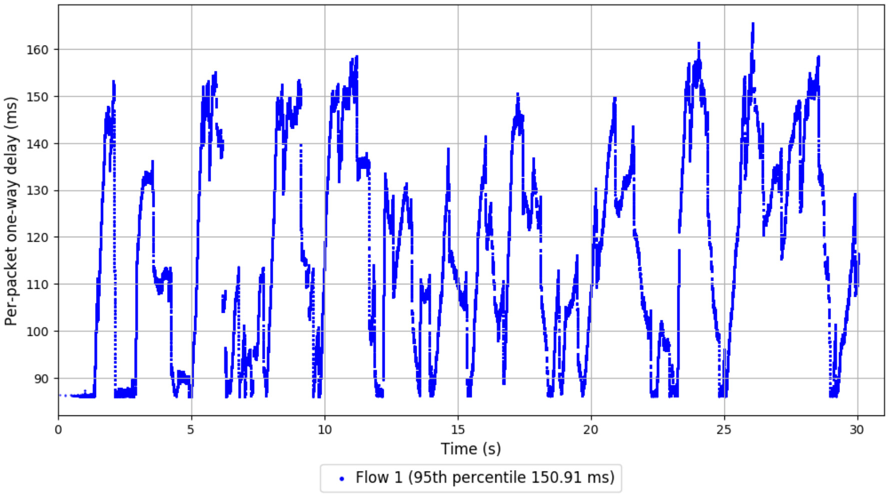




```
Run 9: Statistics of FillP

Start at: 2018-05-24 02:25:29
End at: 2018-05-24 02:25:59
Local clock offset: 1.299 ms
Remote clock offset: 1.125 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 847.70 Mbit/s
95th percentile per-packet one-way delay: 150.910 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 847.70 Mbit/s
95th percentile per-packet one-way delay: 150.910 ms
Loss rate: 1.80%
```

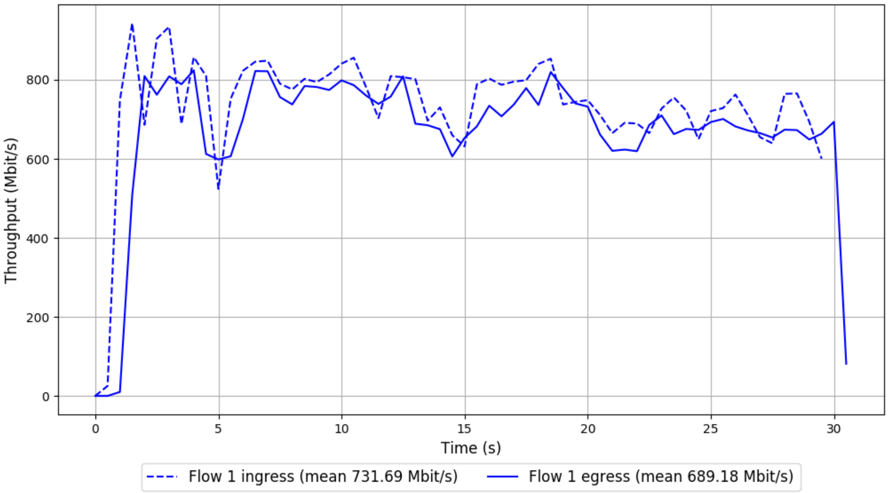
Run 9: Report of FillP — Data Link

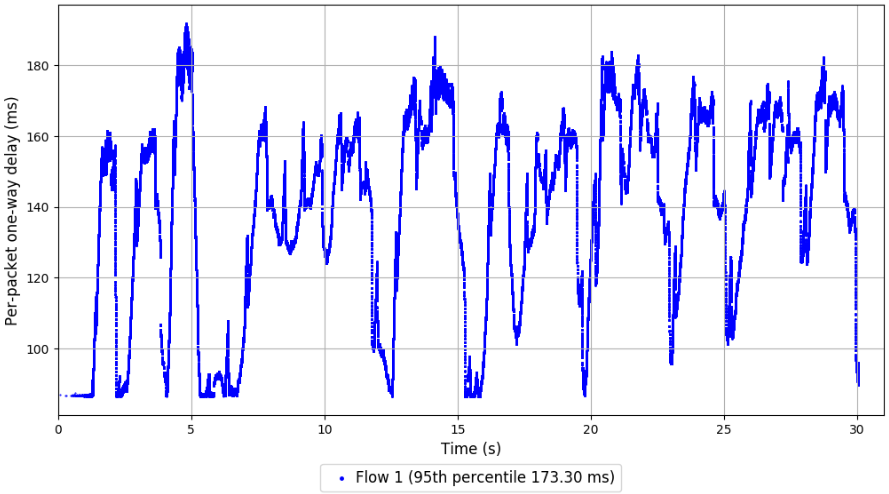




```
Run 10: Statistics of FillP

Start at: 2018-05-24 02:46:40
End at: 2018-05-24 02:47:10
Local clock offset: 0.724 ms
Remote clock offset: 0.6 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 689.18 Mbit/s
95th percentile per-packet one-way delay: 173.303 ms
Loss rate: 5.81%
-- Flow 1:
Average throughput: 689.18 Mbit/s
95th percentile per-packet one-way delay: 173.303 ms
Loss rate: 5.81%
```

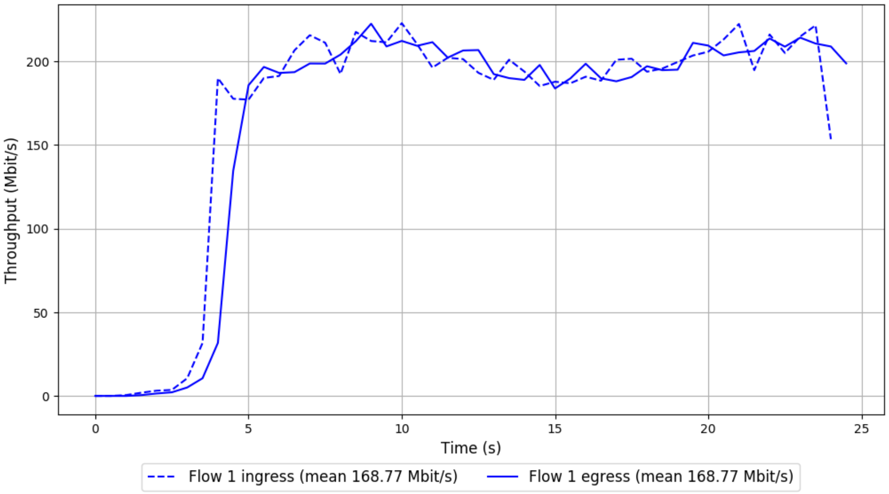
Run 10: Report of FillP — Data Link

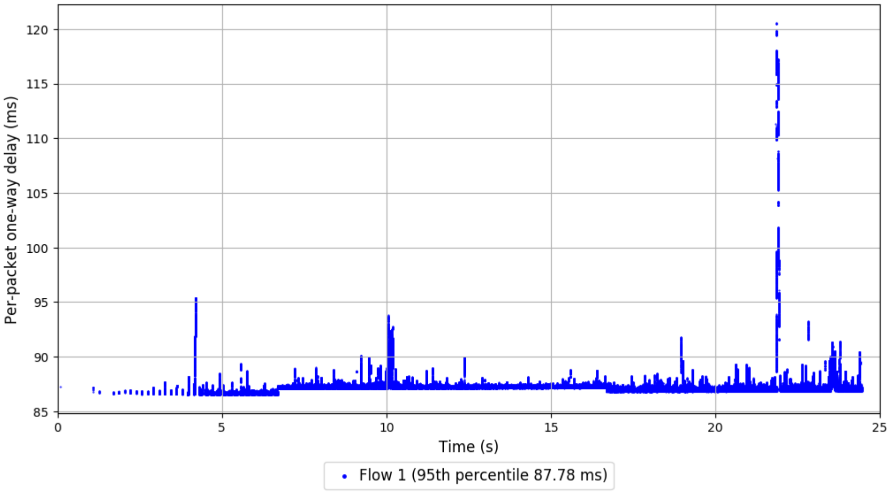




```
Run 1: Statistics of Indigo

Start at: 2018-05-23 23:42:37
End at: 2018-05-23 23:43:07
Local clock offset: 12.36 ms
Remote clock offset: 9.733 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 168.77 Mbit/s
95th percentile per-packet one-way delay: 87.777 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 168.77 Mbit/s
95th percentile per-packet one-way delay: 87.777 ms
Loss rate: 0.00%
```

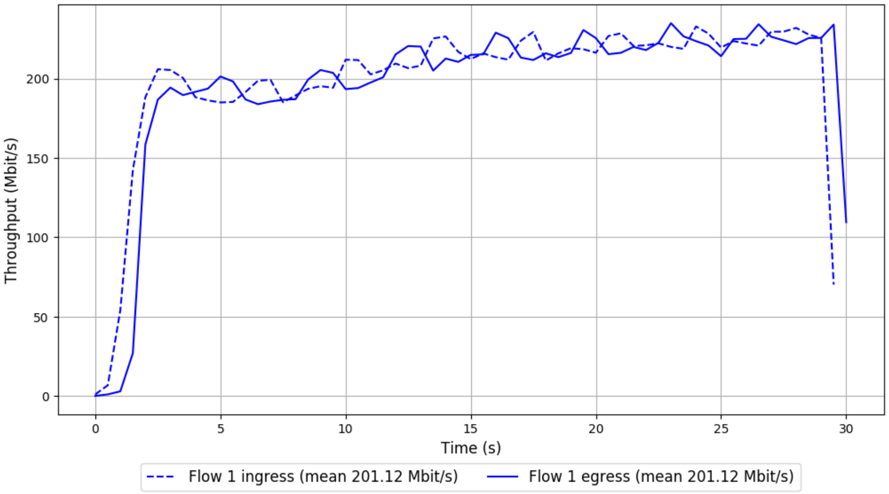
Run 1: Report of Indigo — Data Link

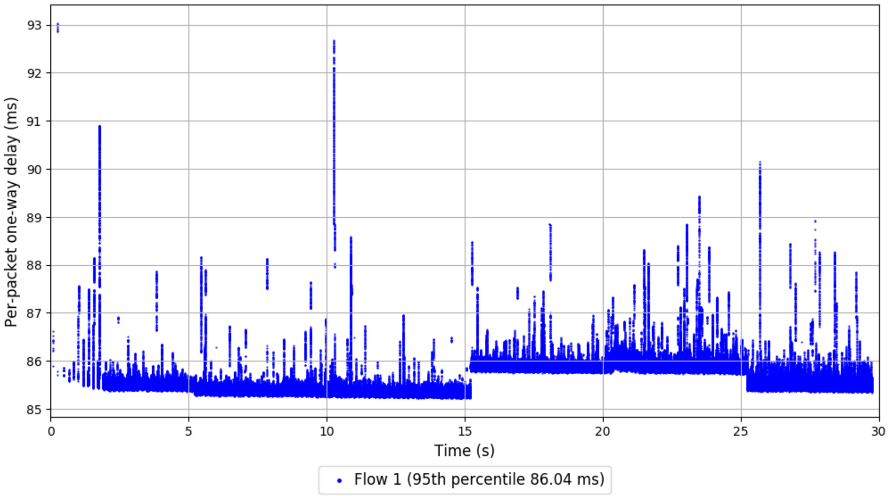




```
Run 2: Statistics of Indigo

Start at: 2018-05-24 00:03:24
End at: 2018-05-24 00:03:54
Local clock offset: 29.12 ms
Remote clock offset: 23.092 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.12 Mbit/s
95th percentile per-packet one-way delay: 86.042 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.12 Mbit/s
95th percentile per-packet one-way delay: 86.042 ms
Loss rate: 0.00%
```

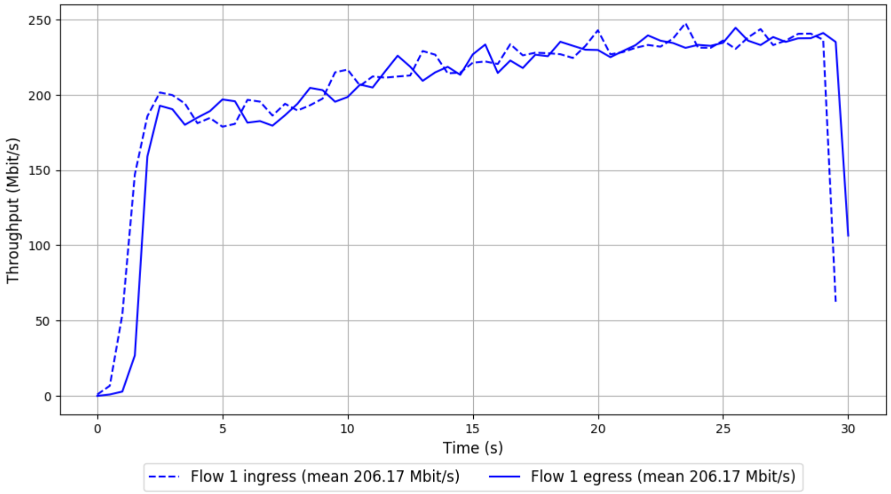
Run 2: Report of Indigo — Data Link

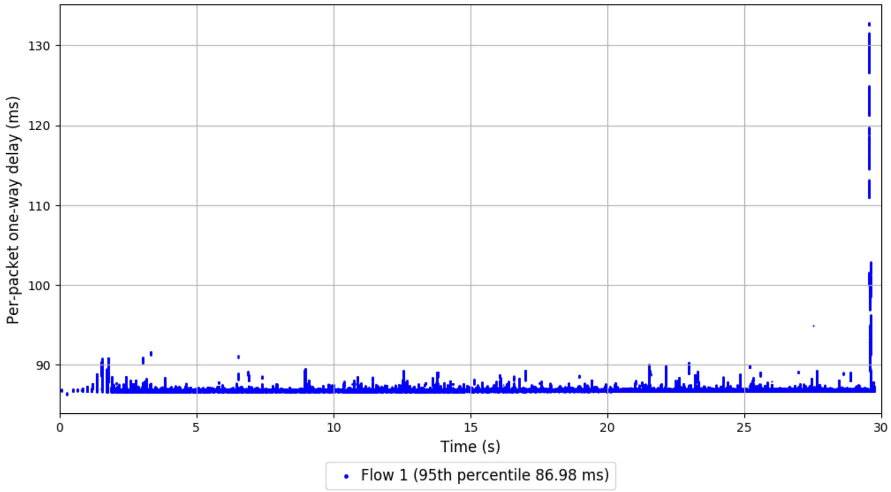




```
Run 3: Statistics of Indigo

Start at: 2018-05-24 00:24:39
End at: 2018-05-24 00:25:09
Local clock offset: 29.249 ms
Remote clock offset: 23.109 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.17 Mbit/s
95th percentile per-packet one-way delay: 86.981 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.17 Mbit/s
95th percentile per-packet one-way delay: 86.981 ms
Loss rate: 0.00%
```

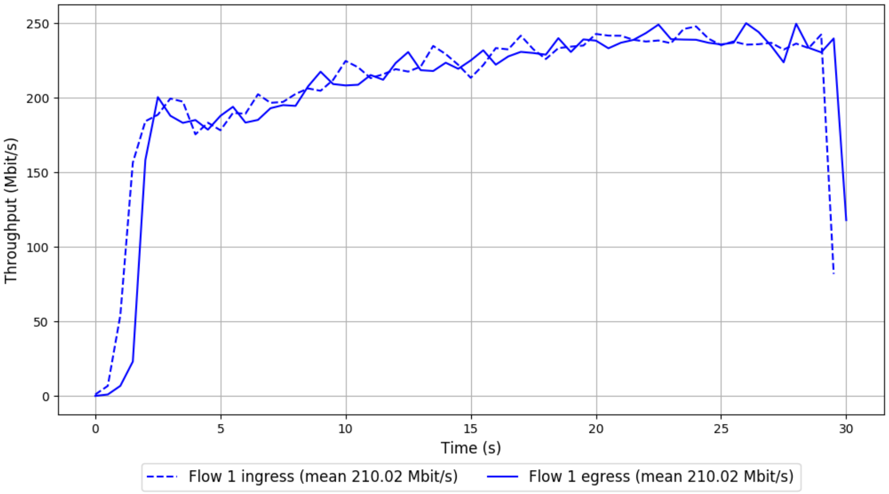
Run 3: Report of Indigo — Data Link

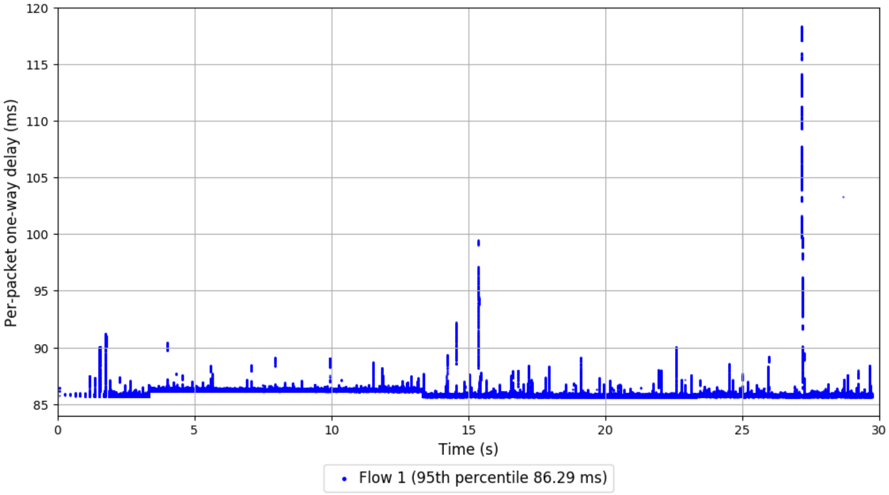




```
Run 4: Statistics of Indigo

Start at: 2018-05-24 00:45:46
End at: 2018-05-24 00:46:16
Local clock offset: 22.108 ms
Remote clock offset: 17.64 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 210.02 Mbit/s
95th percentile per-packet one-way delay: 86.289 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 210.02 Mbit/s
95th percentile per-packet one-way delay: 86.289 ms
Loss rate: 0.00%
```

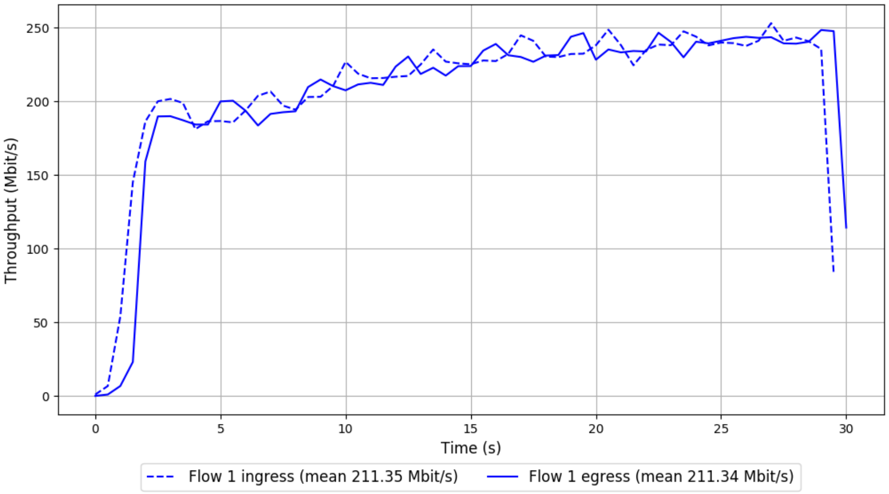
Run 4: Report of Indigo — Data Link

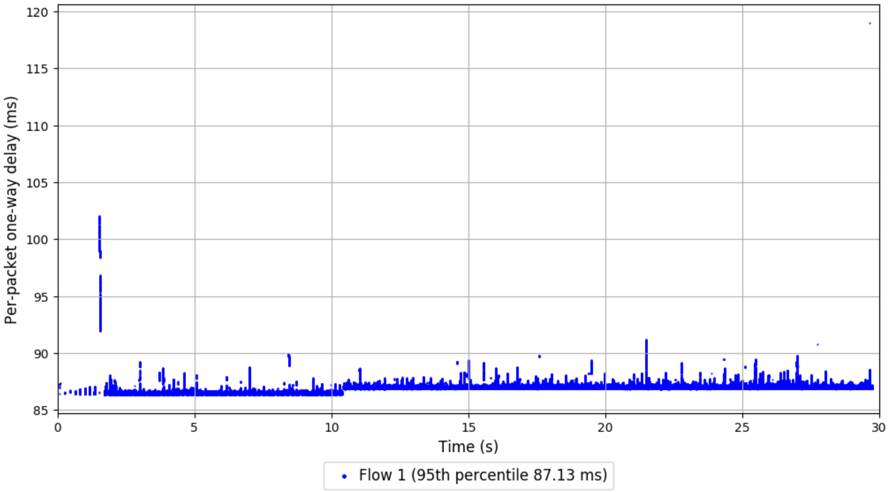




```
Run 5: Statistics of Indigo

Start at: 2018-05-24 01:06:59
End at: 2018-05-24 01:07:29
Local clock offset: 19.735 ms
Remote clock offset: 15.682 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.34 Mbit/s
95th percentile per-packet one-way delay: 87.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.34 Mbit/s
95th percentile per-packet one-way delay: 87.126 ms
Loss rate: 0.00%
```

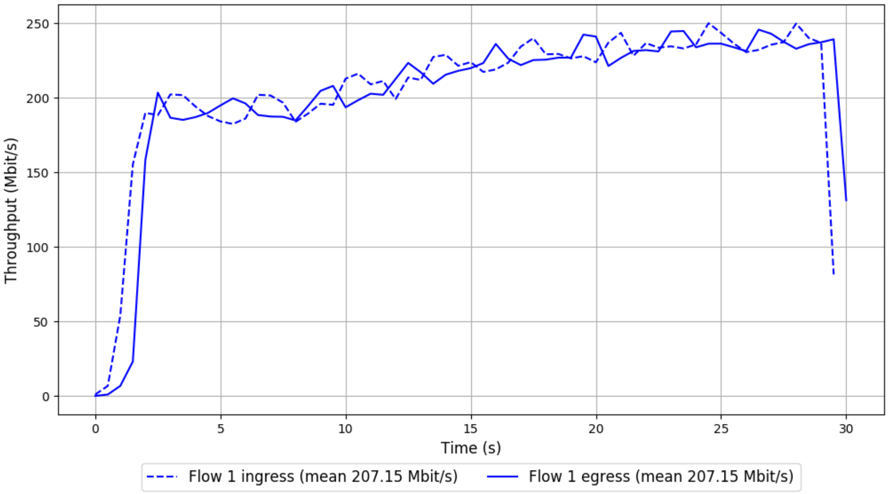
Run 5: Report of Indigo — Data Link

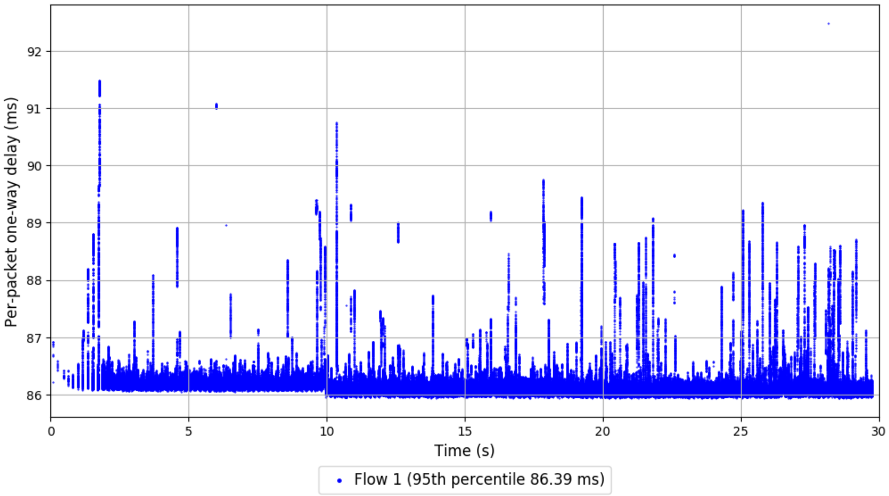




```
Run 6: Statistics of Indigo

Start at: 2018-05-24 01:28:09
End at: 2018-05-24 01:28:39
Local clock offset: 8.16 ms
Remote clock offset: 6.511 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.15 Mbit/s
95th percentile per-packet one-way delay: 86.387 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 207.15 Mbit/s
95th percentile per-packet one-way delay: 86.387 ms
Loss rate: 0.00%
```

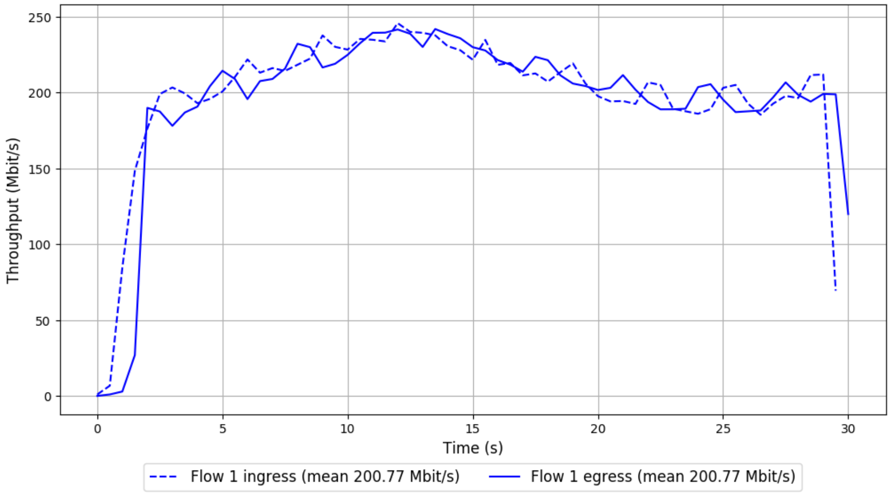
Run 6: Report of Indigo — Data Link

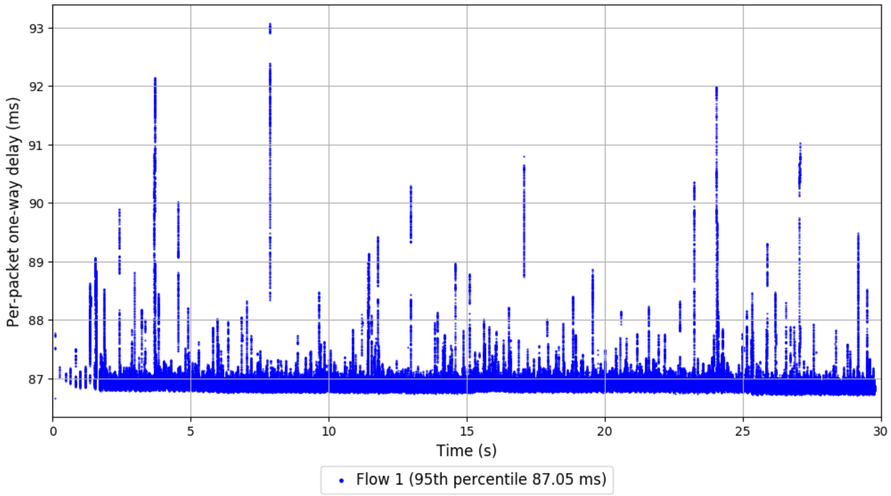




```
Run 7: Statistics of Indigo

Start at: 2018-05-24 01:49:14
End at: 2018-05-24 01:49:44
Local clock offset: 6.938 ms
Remote clock offset: 6.072 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 200.77 Mbit/s
95th percentile per-packet one-way delay: 87.051 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.77 Mbit/s
95th percentile per-packet one-way delay: 87.051 ms
Loss rate: 0.00%
```

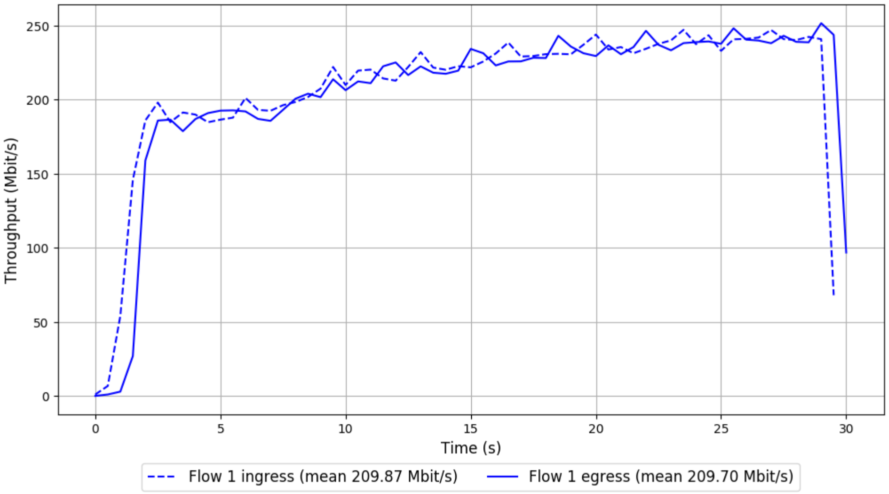
Run 7: Report of Indigo — Data Link

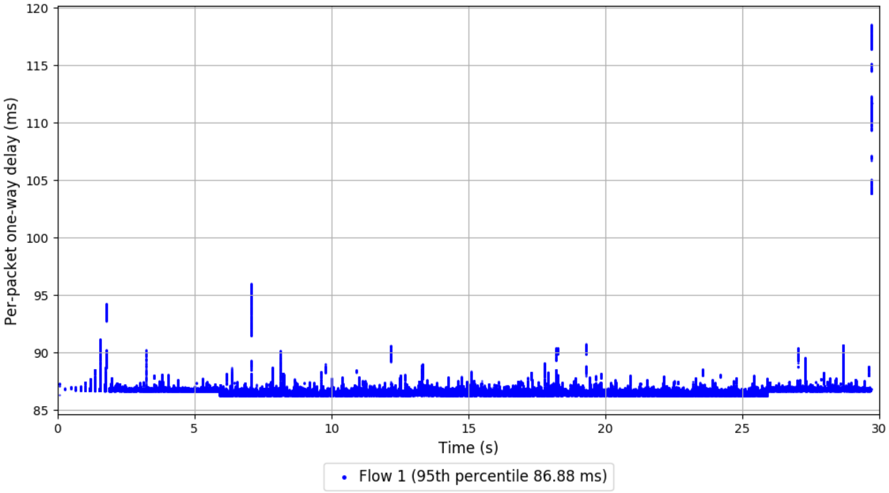




```
Run 8: Statistics of Indigo

Start at: 2018-05-24 02:10:13
End at: 2018-05-24 02:10:43
Local clock offset: 1.933 ms
Remote clock offset: 1.759 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.70 Mbit/s
95th percentile per-packet one-way delay: 86.882 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 209.70 Mbit/s
95th percentile per-packet one-way delay: 86.882 ms
Loss rate: 0.06%
```

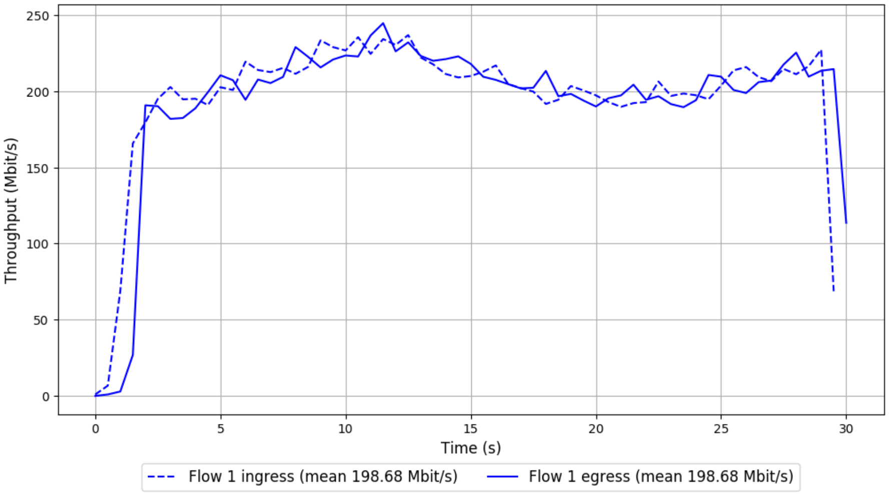
Run 8: Report of Indigo — Data Link

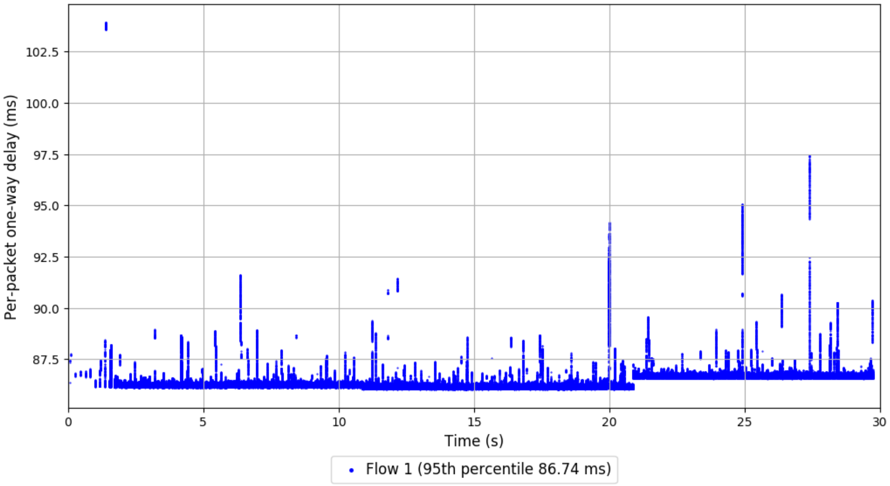




```
Run 9: Statistics of Indigo

Start at: 2018-05-24 02:31:08
End at: 2018-05-24 02:31:38
Local clock offset: 0.877 ms
Remote clock offset: 0.736 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.68 Mbit/s
95th percentile per-packet one-way delay: 86.737 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.68 Mbit/s
95th percentile per-packet one-way delay: 86.737 ms
Loss rate: 0.00%
```

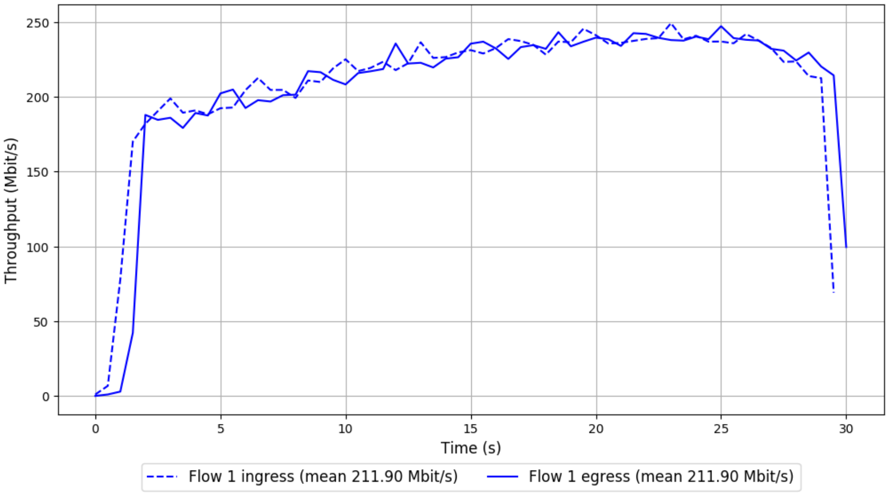
Run 9: Report of Indigo — Data Link

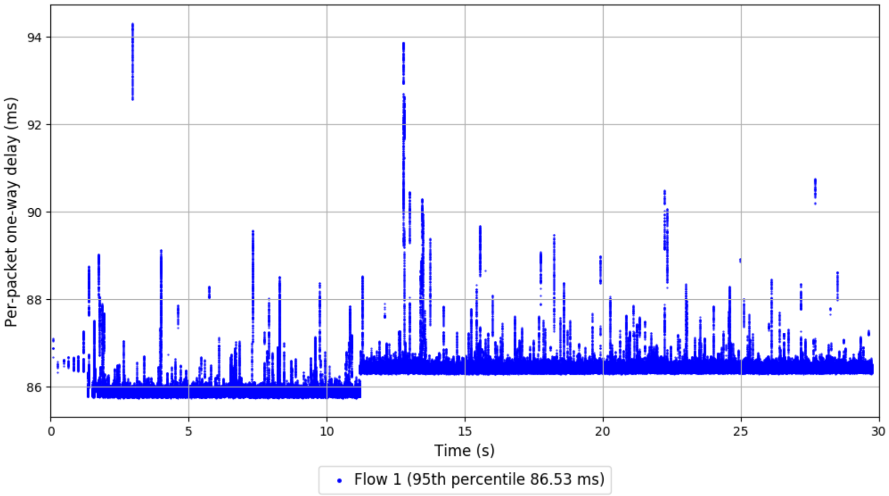




```
Run 10: Statistics of Indigo

Start at: 2018-05-24 02:52:08
End at: 2018-05-24 02:52:38
Local clock offset: 1.23 ms
Remote clock offset: 0.718 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.90 Mbit/s
95th percentile per-packet one-way delay: 86.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 211.90 Mbit/s
95th percentile per-packet one-way delay: 86.529 ms
Loss rate: 0.00%
```

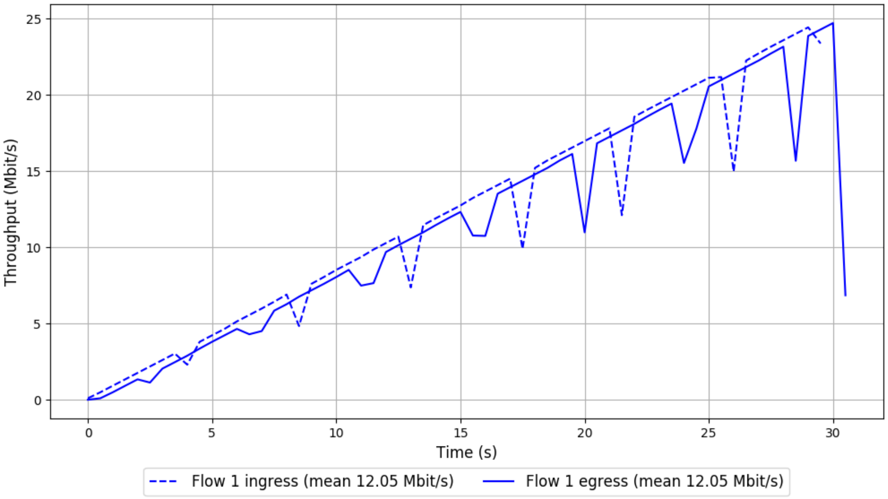
Run 10: Report of Indigo — Data Link

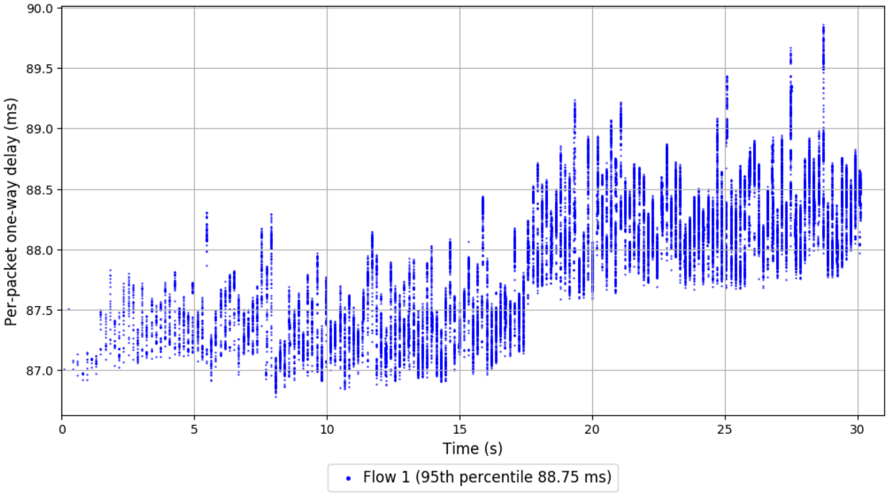




```
Run 1: Statistics of LEDBAT

Start at: 2018-05-23 23:32:12
End at: 2018-05-23 23:32:42
Local clock offset: 4.491 ms
Remote clock offset: 3.427 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 88.751 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 88.751 ms
Loss rate: 0.00%
```

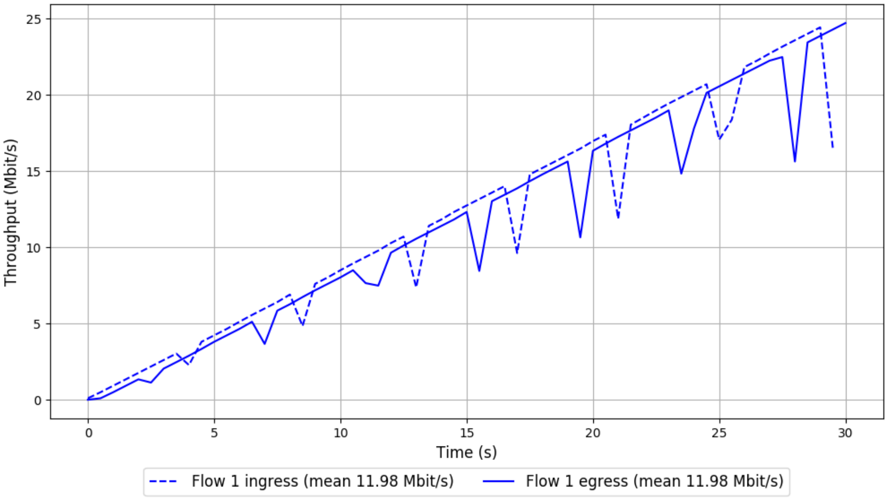
Run 1: Report of LEDBAT — Data Link

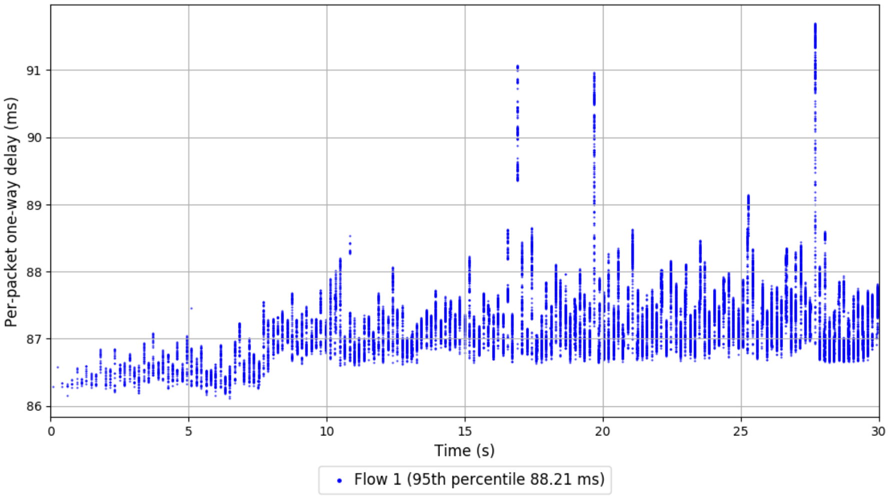




```
Run 2: Statistics of LEDBAT

Start at: 2018-05-23 23:52:52
End at: 2018-05-23 23:53:22
Local clock offset: 15.382 ms
Remote clock offset: 12.042 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 88.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.98 Mbit/s
95th percentile per-packet one-way delay: 88.206 ms
Loss rate: 0.00%
```

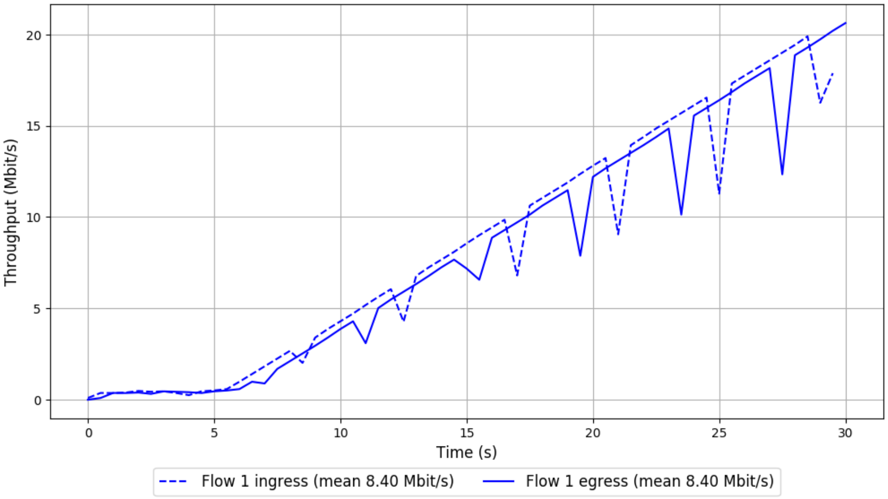
Run 2: Report of LEDBAT — Data Link

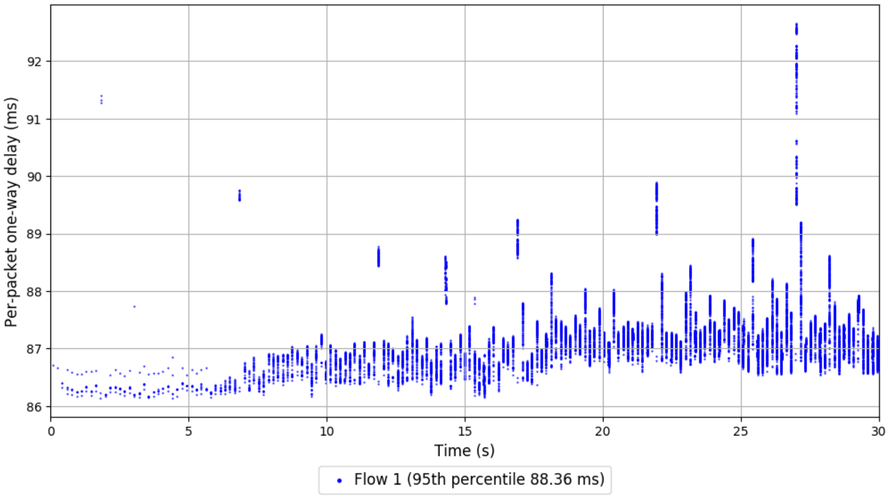




```
Run 3: Statistics of LEDBAT

Start at: 2018-05-24 00:14:02
End at: 2018-05-24 00:14:32
Local clock offset: 21.814 ms
Remote clock offset: 17.311 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 88.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.40 Mbit/s
95th percentile per-packet one-way delay: 88.363 ms
Loss rate: 0.00%
```

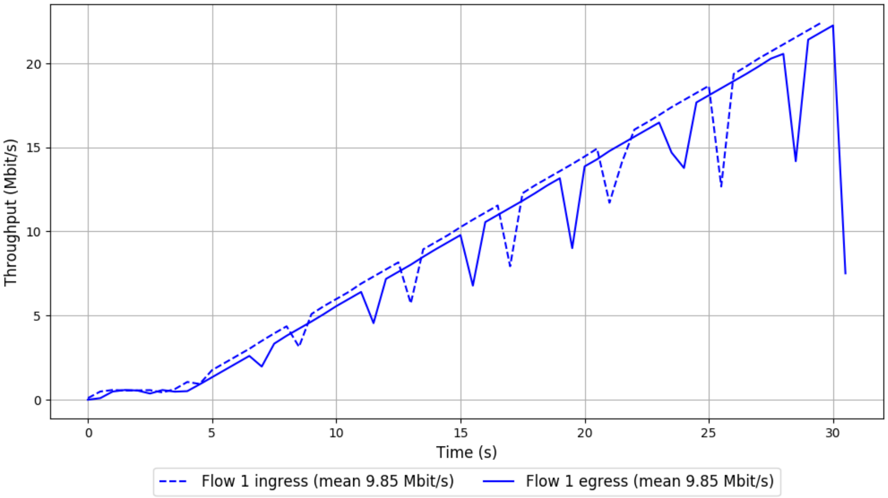
Run 3: Report of LEDBAT — Data Link

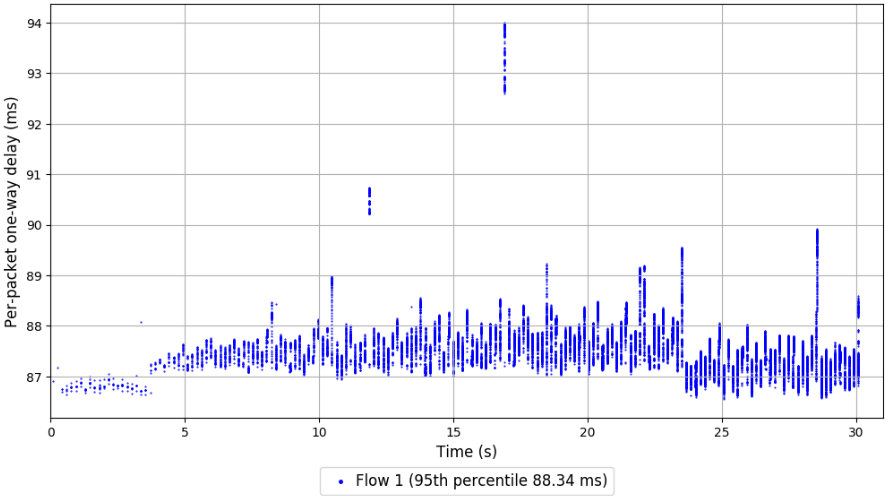




```
Run 4: Statistics of LEDBAT

Start at: 2018-05-24 00:35:06
End at: 2018-05-24 00:35:36
Local clock offset: 40.488 ms
Remote clock offset: 32.249 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 88.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.85 Mbit/s
95th percentile per-packet one-way delay: 88.342 ms
Loss rate: 0.00%
```

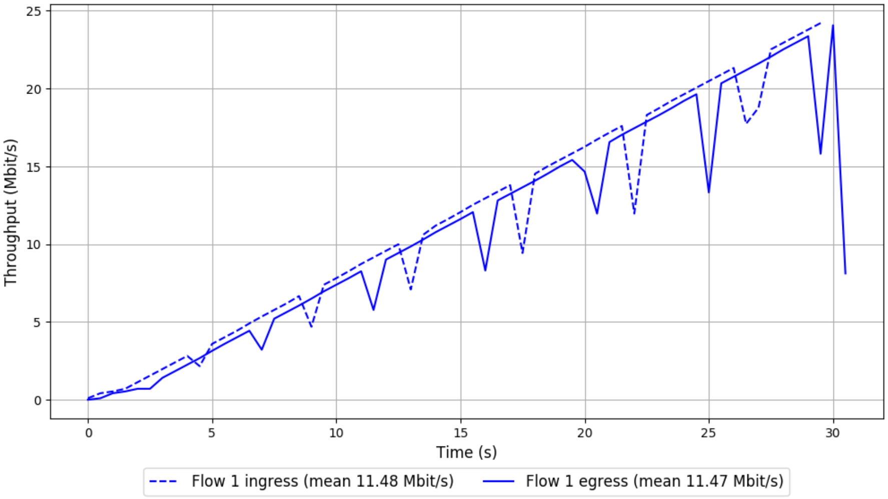
Run 4: Report of LEDBAT — Data Link

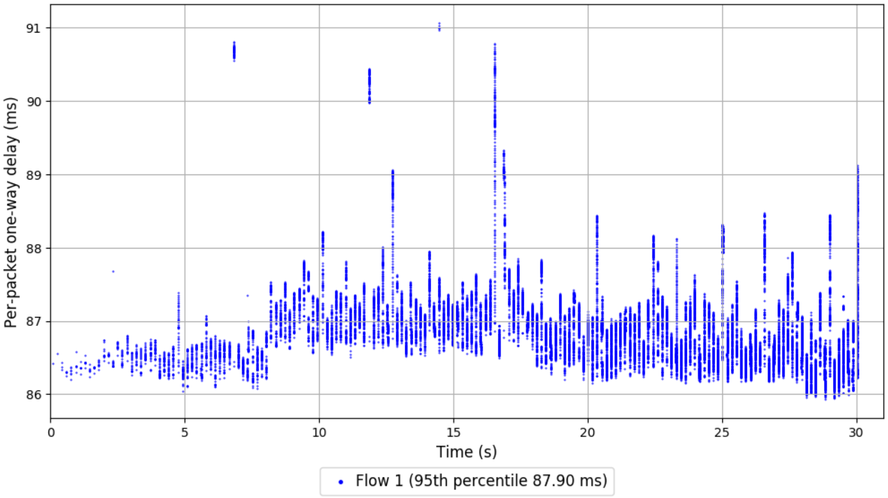




```
Run 5: Statistics of LEDBAT

Start at: 2018-05-24 00:56:31
End at: 2018-05-24 00:57:02
Local clock offset: 16.769 ms
Remote clock offset: 13.192 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 87.902 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.47 Mbit/s
95th percentile per-packet one-way delay: 87.902 ms
Loss rate: 0.00%
```

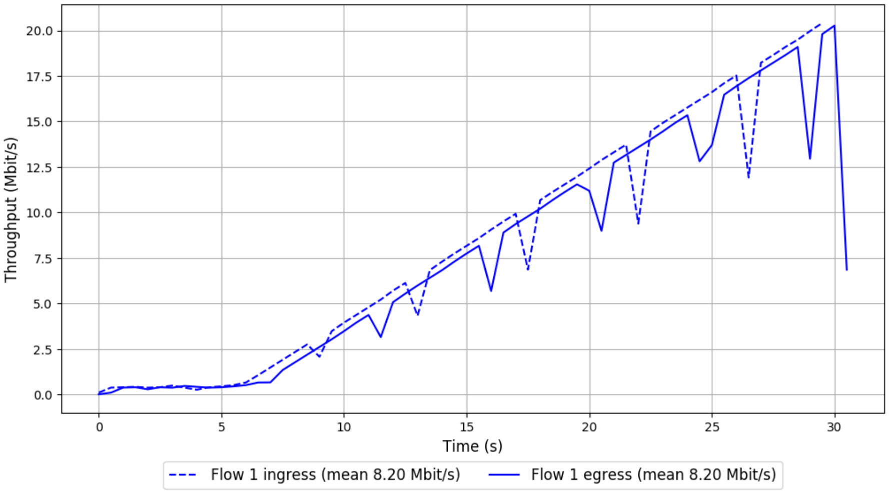
Run 5: Report of LEDBAT — Data Link

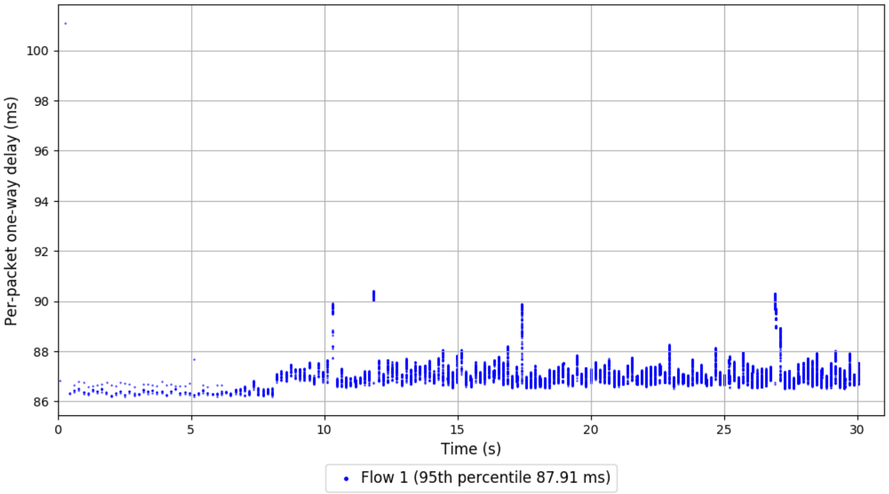




```
Run 6: Statistics of LEDBAT

Start at: 2018-05-24 01:17:31
End at: 2018-05-24 01:18:01
Local clock offset: 12.796 ms
Remote clock offset: 10.486 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 87.908 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.20 Mbit/s
95th percentile per-packet one-way delay: 87.908 ms
Loss rate: 0.00%
```

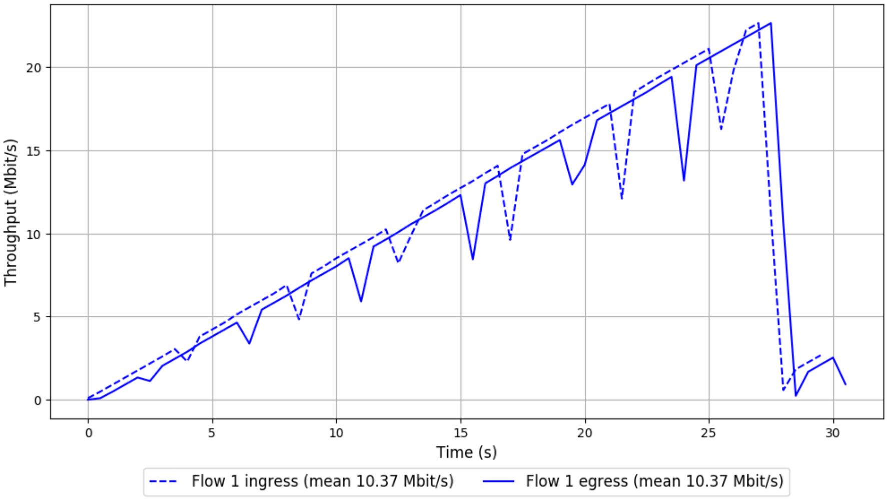
Run 6: Report of LEDBAT — Data Link

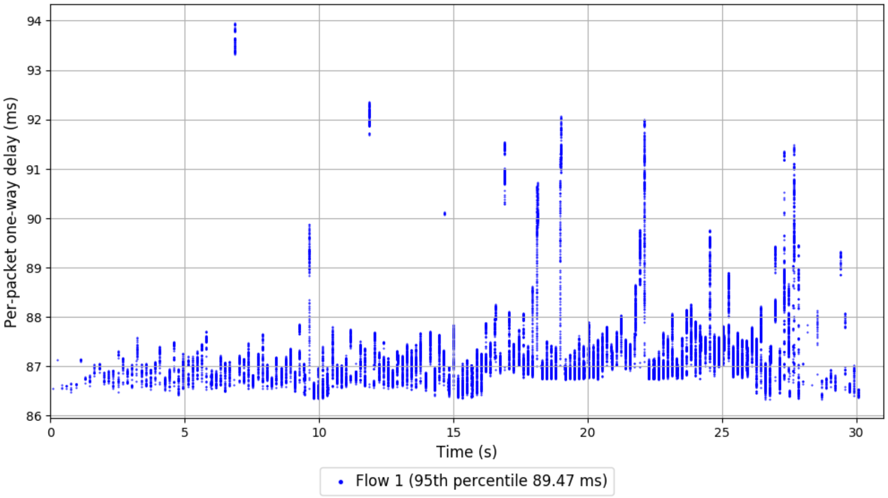




```
Run 7: Statistics of LEDBAT

Start at: 2018-05-24 01:38:33
End at: 2018-05-24 01:39:04
Local clock offset: 8.764 ms
Remote clock offset: 7.192 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.37 Mbit/s
95th percentile per-packet one-way delay: 89.465 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 10.37 Mbit/s
95th percentile per-packet one-way delay: 89.465 ms
Loss rate: 0.05%
```

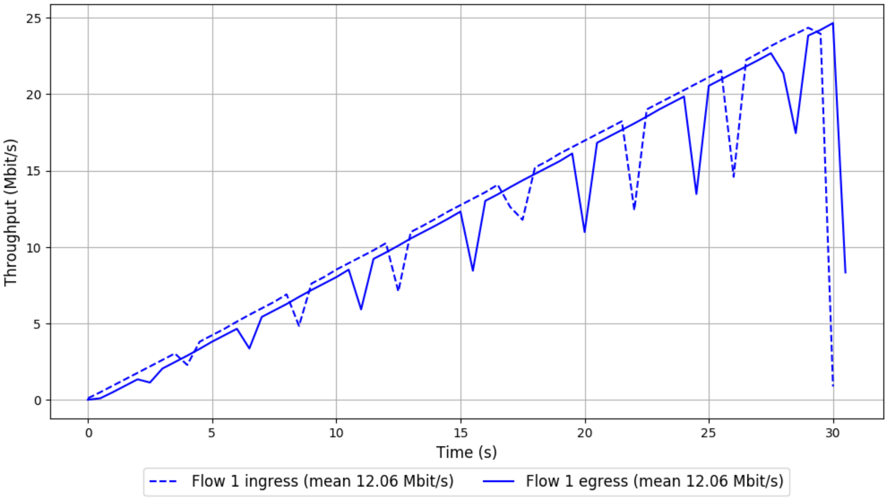
Run 7: Report of LEDBAT — Data Link

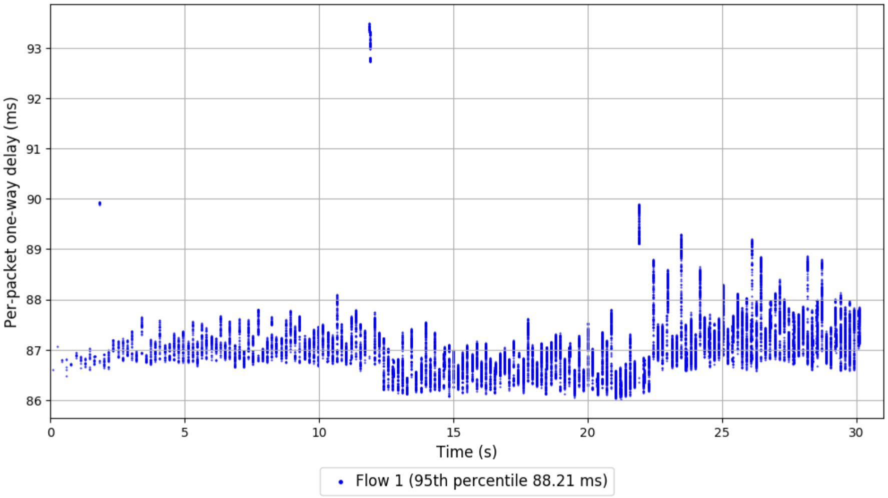




```
Run 8: Statistics of LEDBAT

Start at: 2018-05-24 01:59:37
End at: 2018-05-24 02:00:07
Local clock offset: 2.756 ms
Remote clock offset: 2.384 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 88.209 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.06 Mbit/s
95th percentile per-packet one-way delay: 88.209 ms
Loss rate: 0.00%
```

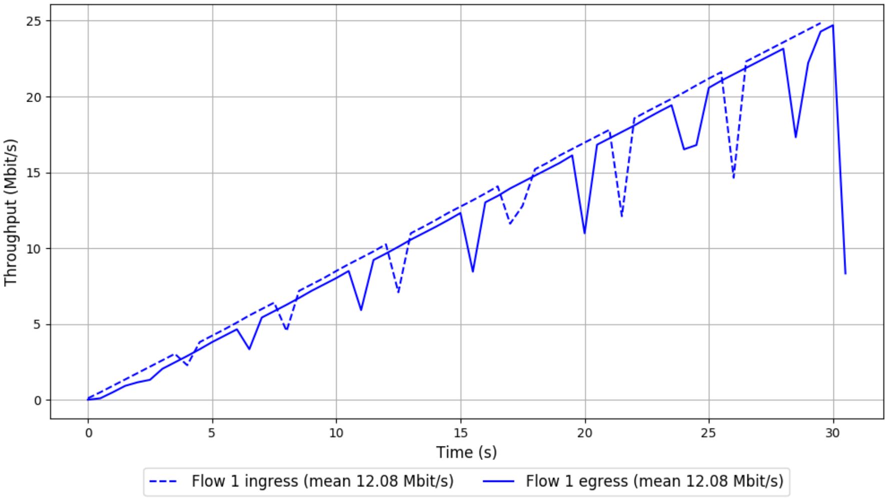
Run 8: Report of LEDBAT — Data Link

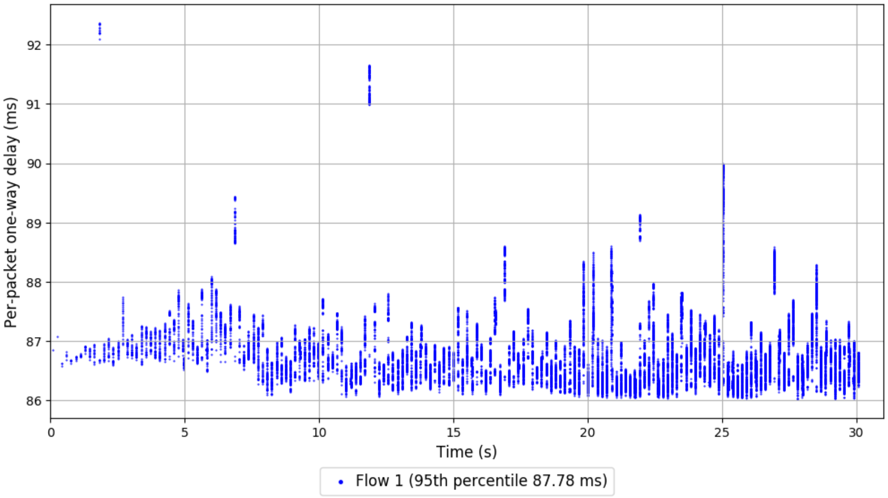




```
Run 9: Statistics of LEDBAT

Start at: 2018-05-24 02:20:42
End at: 2018-05-24 02:21:12
Local clock offset: 2.18 ms
Remote clock offset: 1.848 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 87.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.08 Mbit/s
95th percentile per-packet one-way delay: 87.783 ms
Loss rate: 0.00%
```

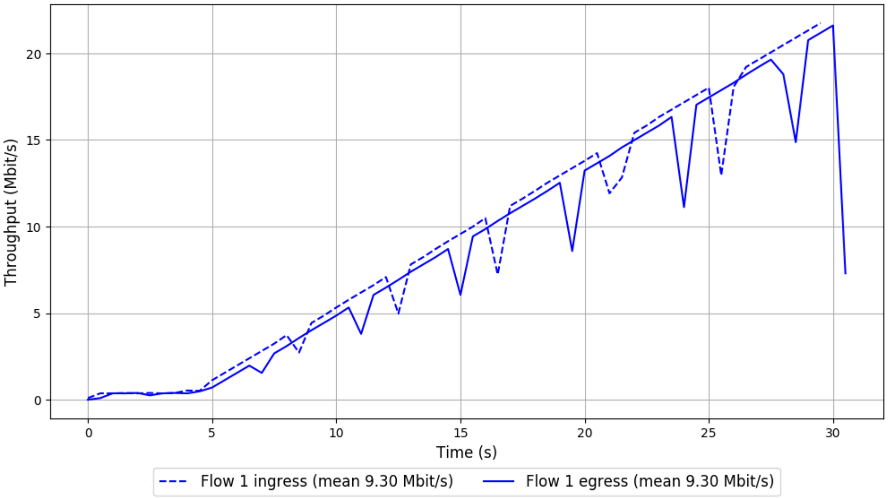
Run 9: Report of LEDBAT — Data Link

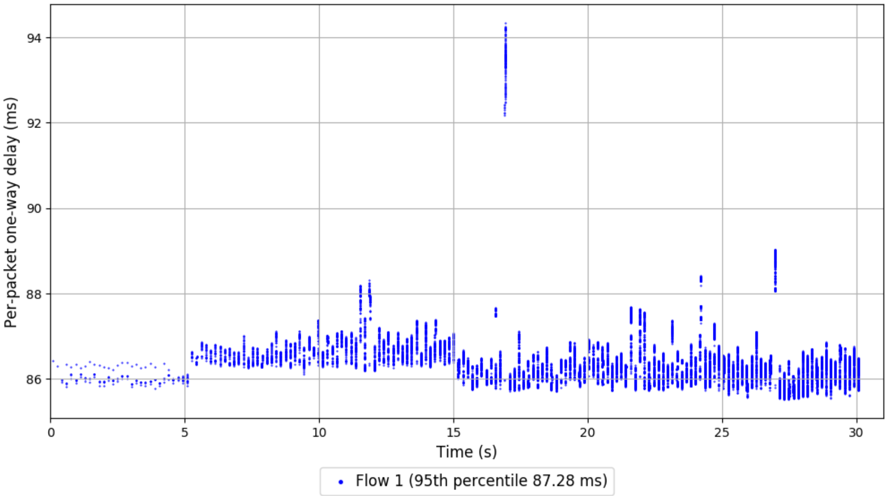




```
Run 10: Statistics of LEDBAT

Start at: 2018-05-24 02:41:44
End at: 2018-05-24 02:42:14
Local clock offset: 1.207 ms
Remote clock offset: 0.546 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 9.30 Mbit/s
95th percentile per-packet one-way delay: 87.281 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.30 Mbit/s
95th percentile per-packet one-way delay: 87.281 ms
Loss rate: 0.00%
```

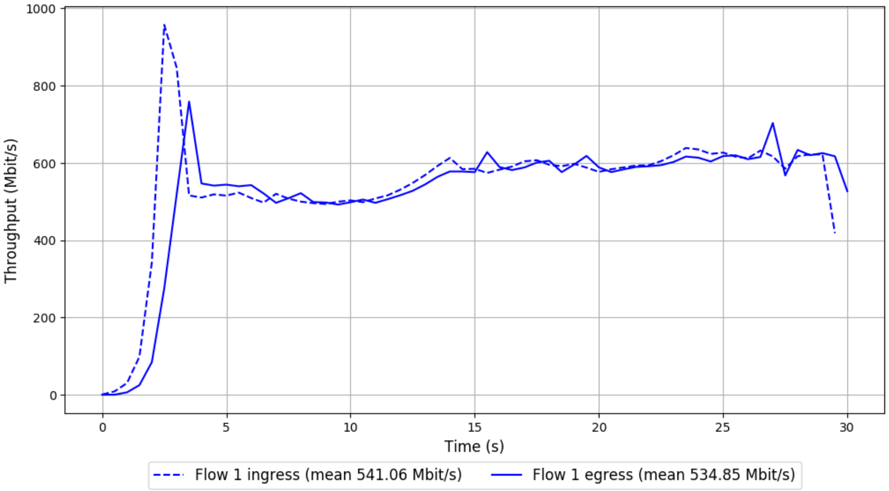
Run 10: Report of LEDBAT — Data Link

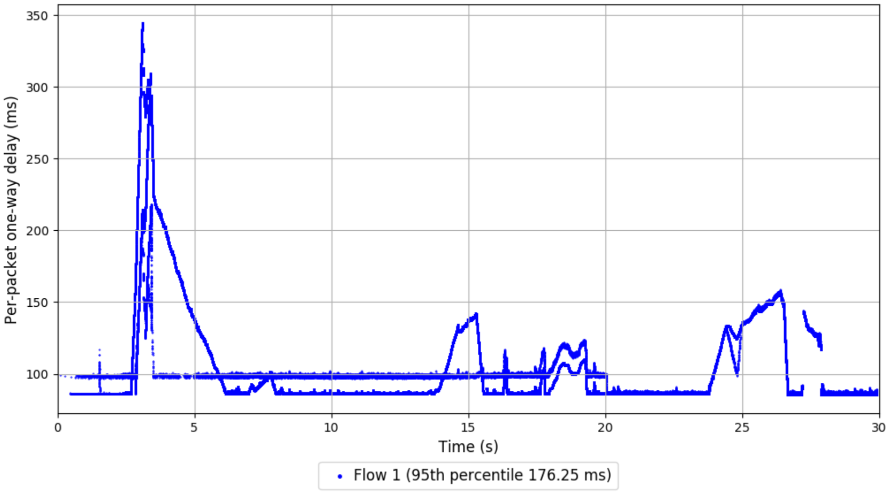




```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-23 23:47:24
End at: 2018-05-23 23:47:54
Local clock offset: 17.479 ms
Remote clock offset: 14.037 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 534.85 Mbit/s
95th percentile per-packet one-way delay: 176.255 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 534.85 Mbit/s
95th percentile per-packet one-way delay: 176.255 ms
Loss rate: 1.19%
```

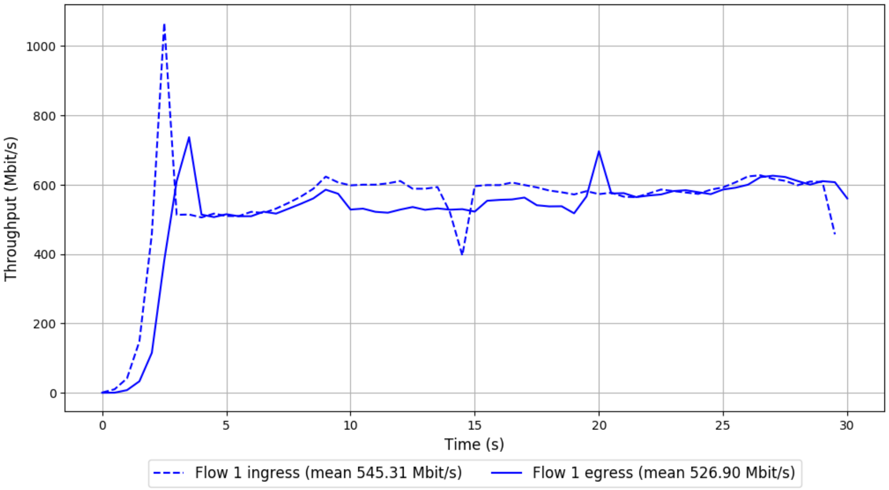
Run 1: Report of PCC-Allegro — Data Link

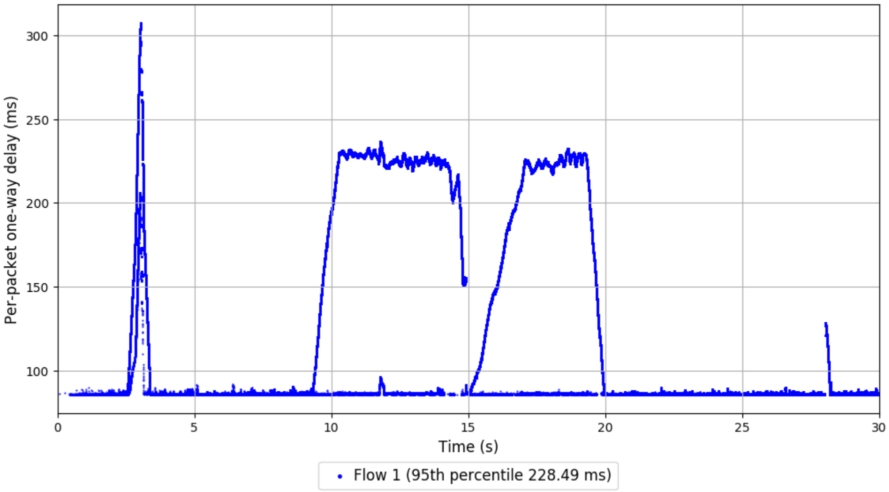




```
Run 2: Statistics of PCC-Allegro

Start at: 2018-05-24 00:08:20
End at: 2018-05-24 00:08:50
Local clock offset: 22.817 ms
Remote clock offset: 18.043 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 526.90 Mbit/s
95th percentile per-packet one-way delay: 228.490 ms
Loss rate: 3.37%
-- Flow 1:
Average throughput: 526.90 Mbit/s
95th percentile per-packet one-way delay: 228.490 ms
Loss rate: 3.37%
```

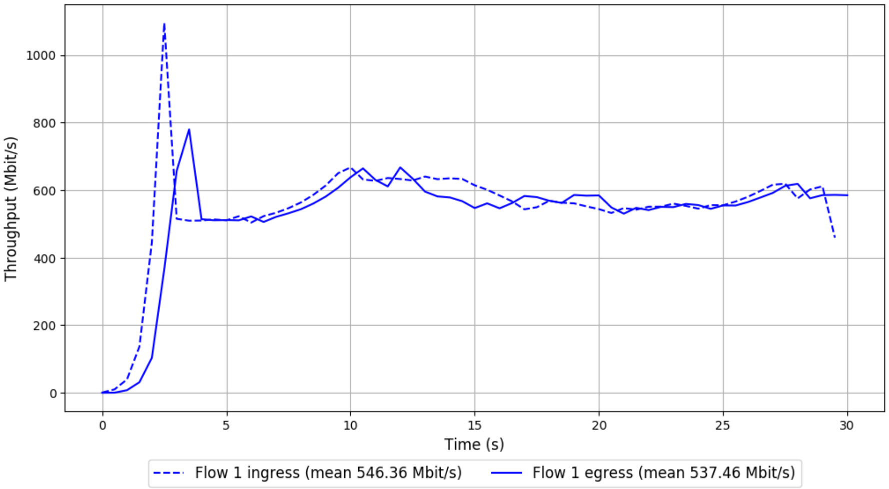
Run 2: Report of PCC-Allegro — Data Link

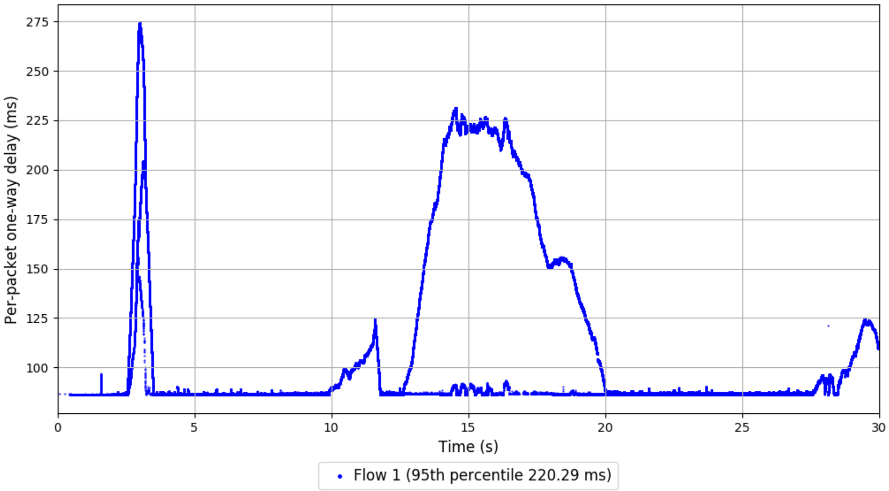




```
Run 3: Statistics of PCC-Allegro

Start at: 2018-05-24 00:29:31
End at: 2018-05-24 00:30:01
Local clock offset: 34.188 ms
Remote clock offset: 27.171 ms

# Below is generated by plot.py at 2018-05-24 03:58:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 537.46 Mbit/s
95th percentile per-packet one-way delay: 220.286 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 537.46 Mbit/s
95th percentile per-packet one-way delay: 220.286 ms
Loss rate: 1.63%
```

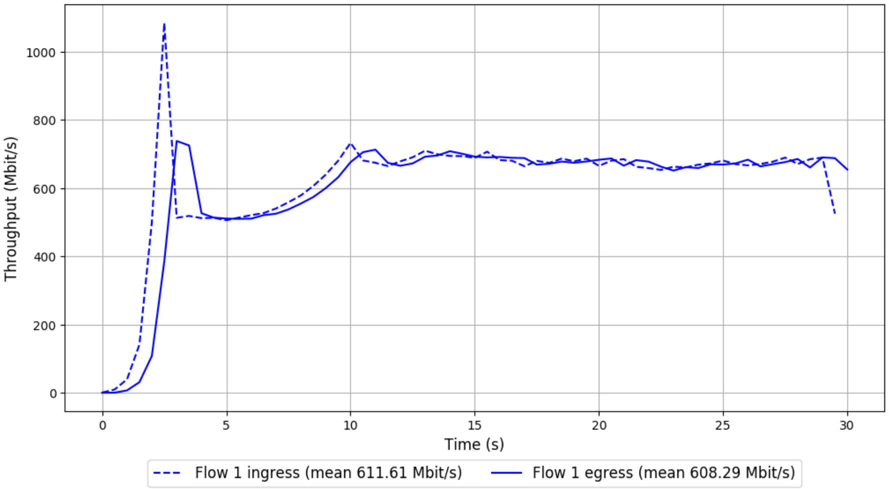
Run 3: Report of PCC-Allegro — Data Link

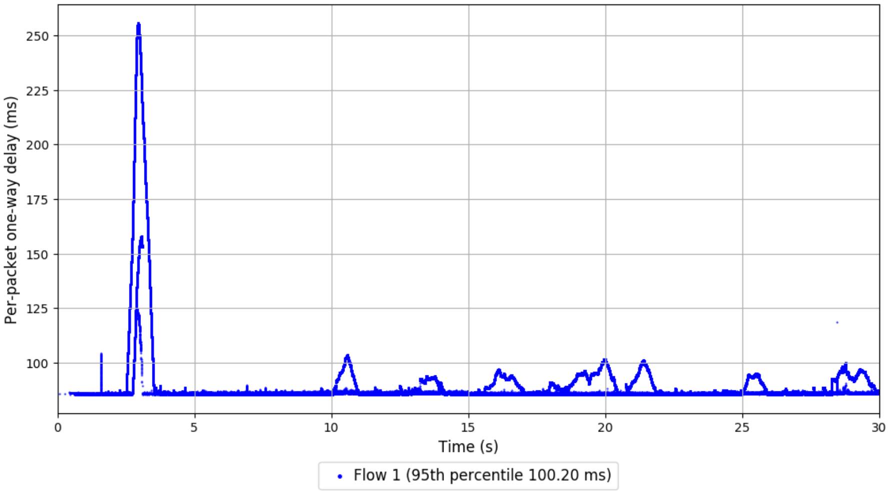




```
Run 4: Statistics of PCC-Allegro

Start at: 2018-05-24 00:50:44
End at: 2018-05-24 00:51:14
Local clock offset: 18.103 ms
Remote clock offset: 13.984 ms

# Below is generated by plot.py at 2018-05-24 03:59:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 608.29 Mbit/s
95th percentile per-packet one-way delay: 100.200 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 608.29 Mbit/s
95th percentile per-packet one-way delay: 100.200 ms
Loss rate: 0.54%
```

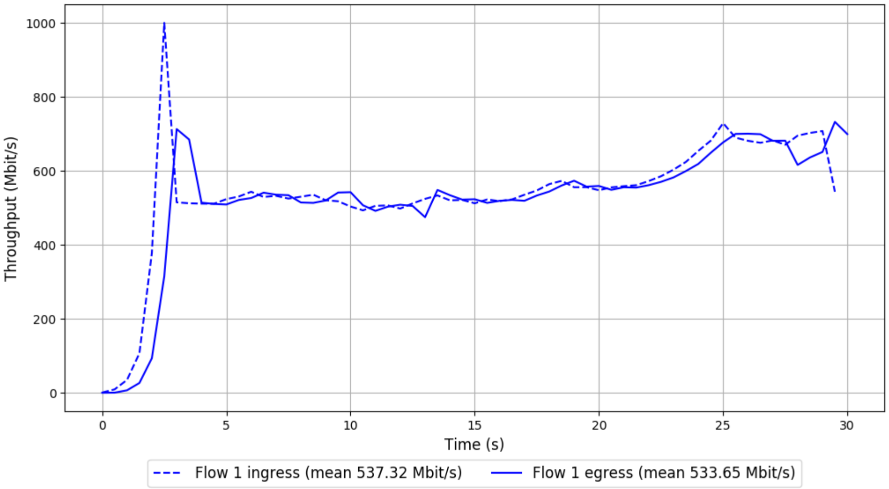
Run 4: Report of PCC-Allegro — Data Link

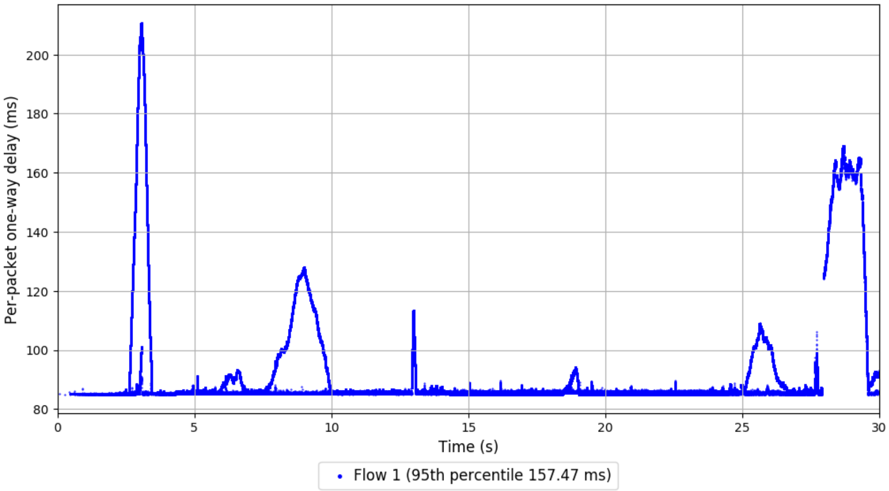




```
Run 5: Statistics of PCC-Allegro

Start at: 2018-05-24 01:11:55
End at: 2018-05-24 01:12:25
Local clock offset: 22.219 ms
Remote clock offset: 17.307 ms

# Below is generated by plot.py at 2018-05-24 03:59:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 533.65 Mbit/s
95th percentile per-packet one-way delay: 157.475 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 533.65 Mbit/s
95th percentile per-packet one-way delay: 157.475 ms
Loss rate: 0.68%
```

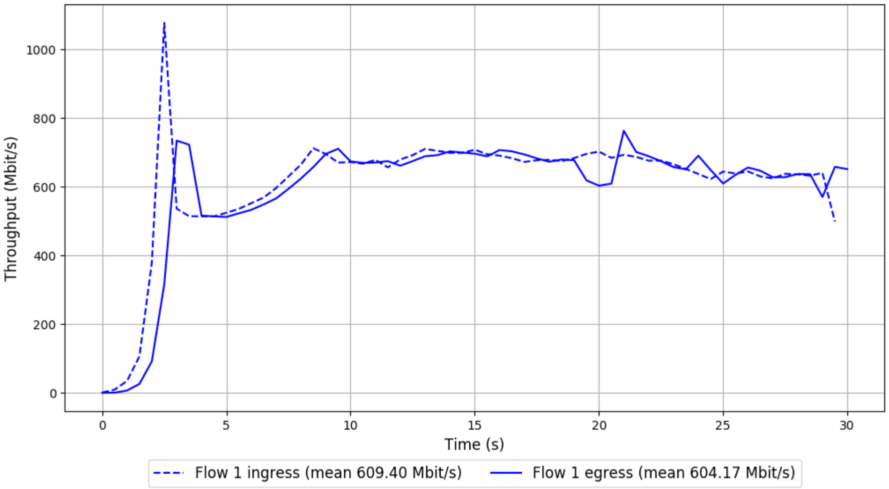
Run 5: Report of PCC-Allegro — Data Link

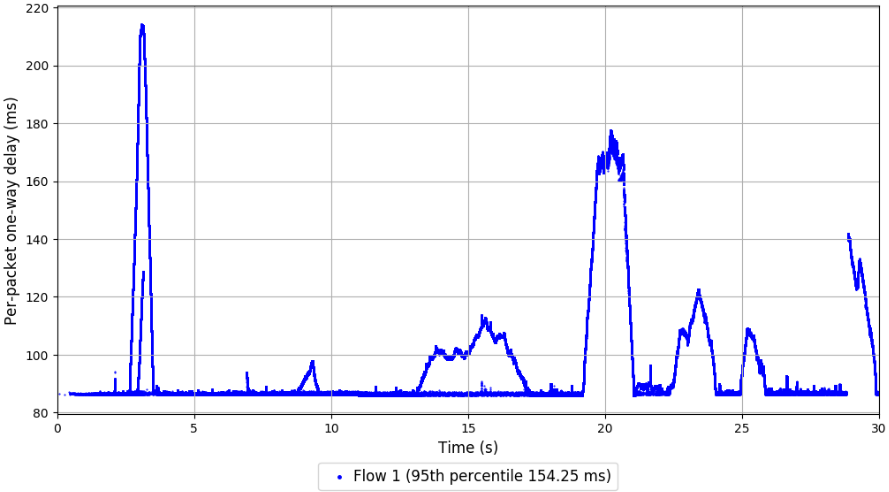




```
Run 6: Statistics of PCC-Allegro

Start at: 2018-05-24 01:32:58
End at: 2018-05-24 01:33:28
Local clock offset: 8.185 ms
Remote clock offset: 6.531 ms

# Below is generated by plot.py at 2018-05-24 04:00:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 604.17 Mbit/s
95th percentile per-packet one-way delay: 154.251 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 604.17 Mbit/s
95th percentile per-packet one-way delay: 154.251 ms
Loss rate: 0.86%
```

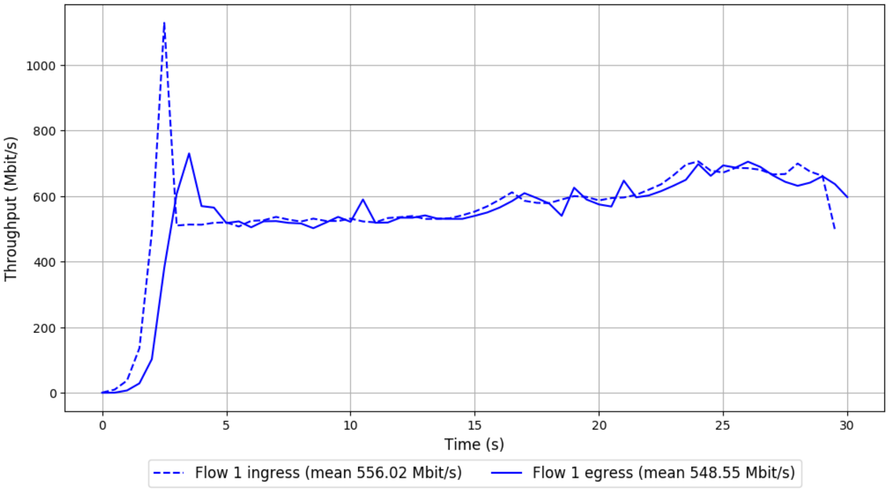
Run 6: Report of PCC-Allegro — Data Link

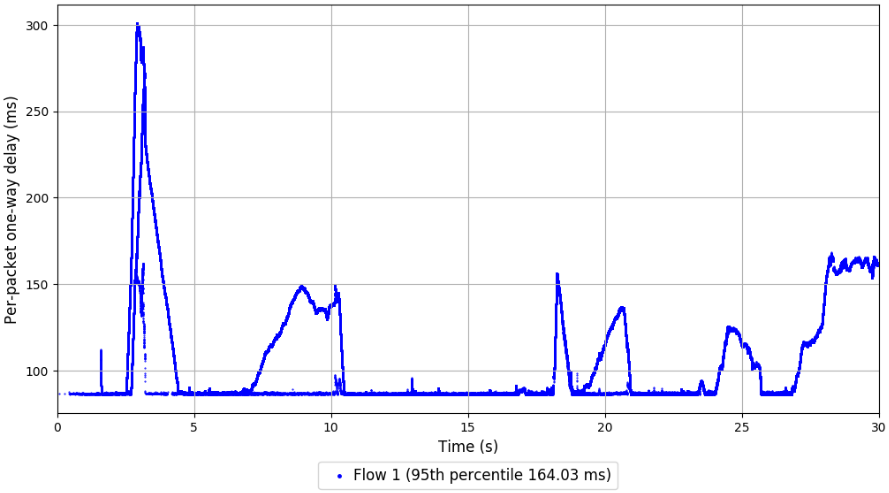




```
Run 7: Statistics of PCC-Allegro

Start at: 2018-05-24 01:54:09
End at: 2018-05-24 01:54:39
Local clock offset: 4.246 ms
Remote clock offset: 3.733 ms

# Below is generated by plot.py at 2018-05-24 04:05:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 548.55 Mbit/s
95th percentile per-packet one-way delay: 164.030 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 548.55 Mbit/s
95th percentile per-packet one-way delay: 164.030 ms
Loss rate: 1.34%
```

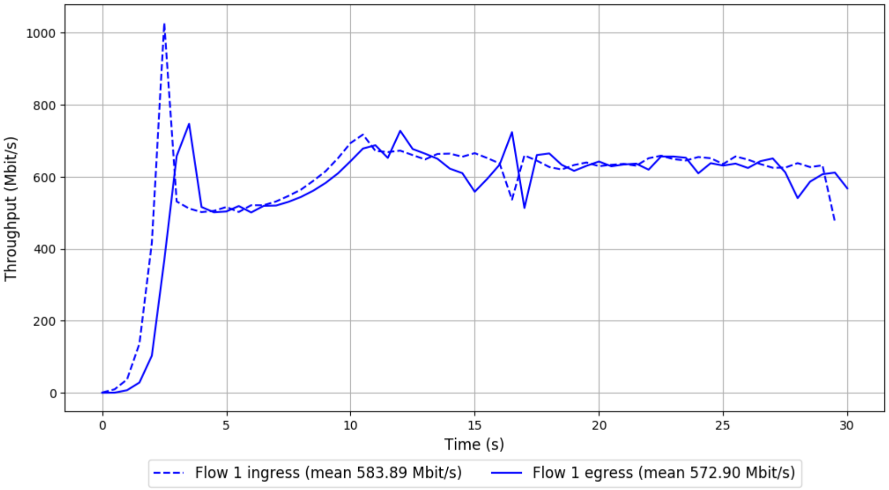
Run 7: Report of PCC-Allegro — Data Link

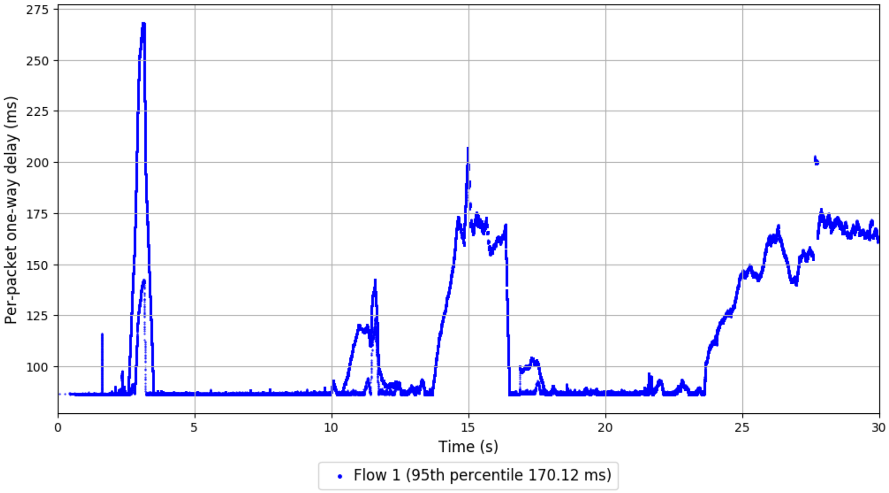




```
Run 8: Statistics of PCC-Allegro

Start at: 2018-05-24 02:15:04
End at: 2018-05-24 02:15:34
Local clock offset: 1.872 ms
Remote clock offset: 1.75 ms

# Below is generated by plot.py at 2018-05-24 04:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 572.90 Mbit/s
95th percentile per-packet one-way delay: 170.115 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 572.90 Mbit/s
95th percentile per-packet one-way delay: 170.115 ms
Loss rate: 1.88%
```

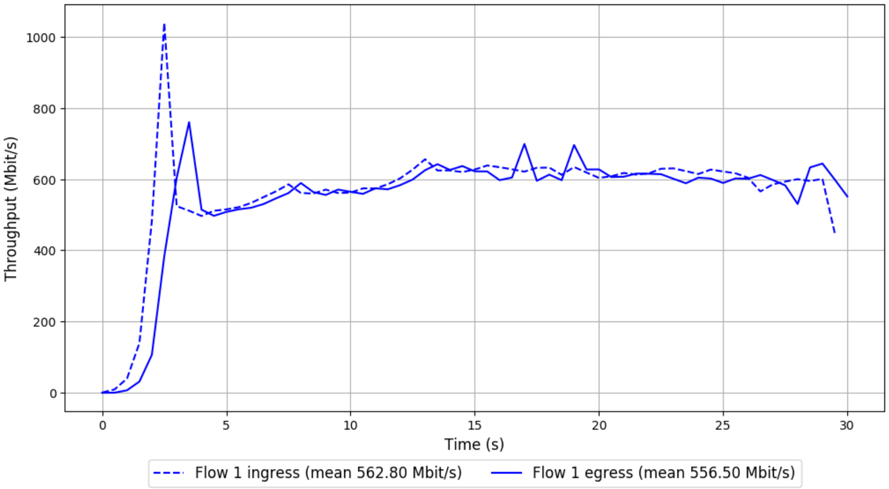
Run 8: Report of PCC-Allegro — Data Link

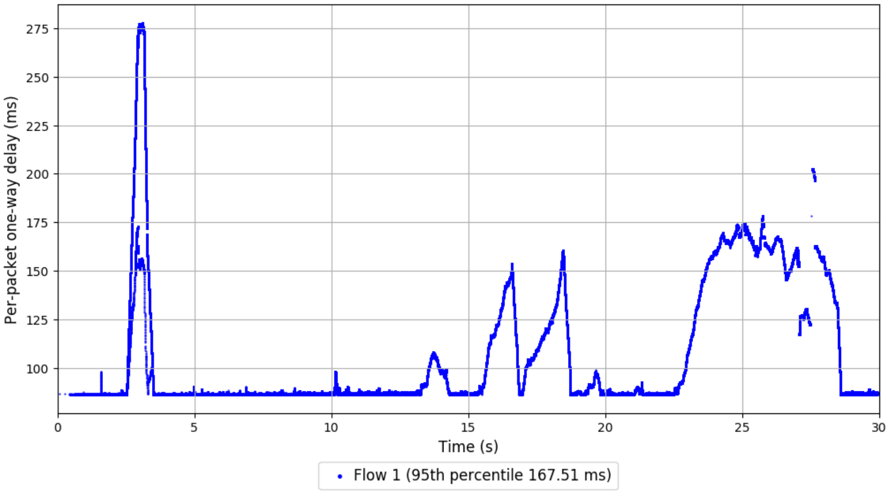




```
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-24 02:36:01
End at: 2018-05-24 02:36:31
Local clock offset: 0.59 ms
Remote clock offset: 0.594 ms

# Below is generated by plot.py at 2018-05-24 04:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 556.50 Mbit/s
95th percentile per-packet one-way delay: 167.506 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 556.50 Mbit/s
95th percentile per-packet one-way delay: 167.506 ms
Loss rate: 1.12%
```

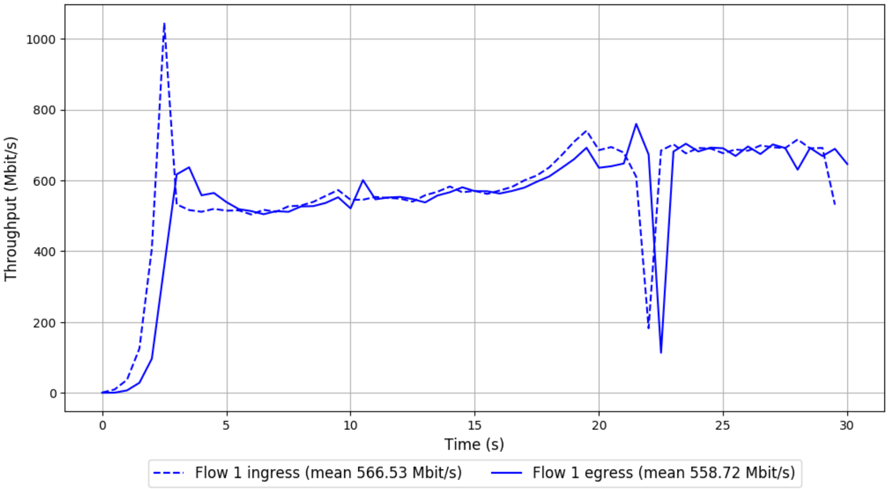
Run 9: Report of PCC-Allegro — Data Link

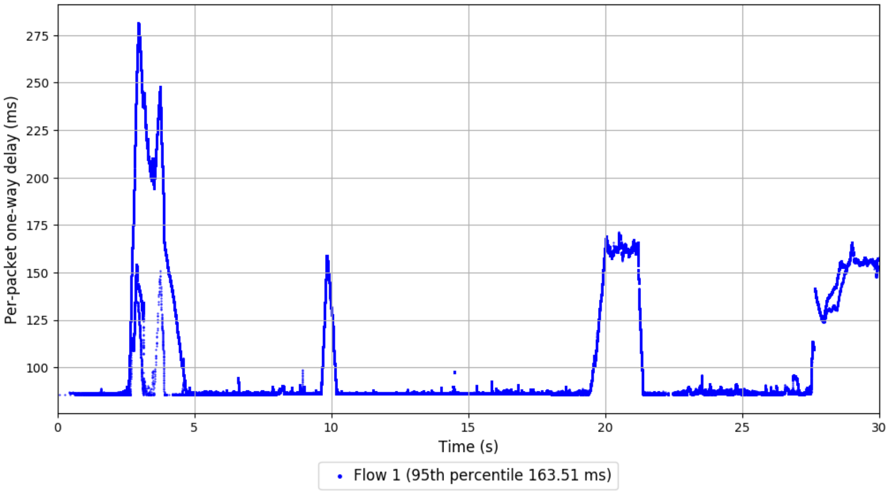




```
Run 10: Statistics of PCC-Allegro

Start at: 2018-05-24 02:57:02
End at: 2018-05-24 02:57:32
Local clock offset: 1.104 ms
Remote clock offset: 0.561 ms

# Below is generated by plot.py at 2018-05-24 04:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 558.72 Mbit/s
95th percentile per-packet one-way delay: 163.509 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 558.72 Mbit/s
95th percentile per-packet one-way delay: 163.509 ms
Loss rate: 1.37%
```

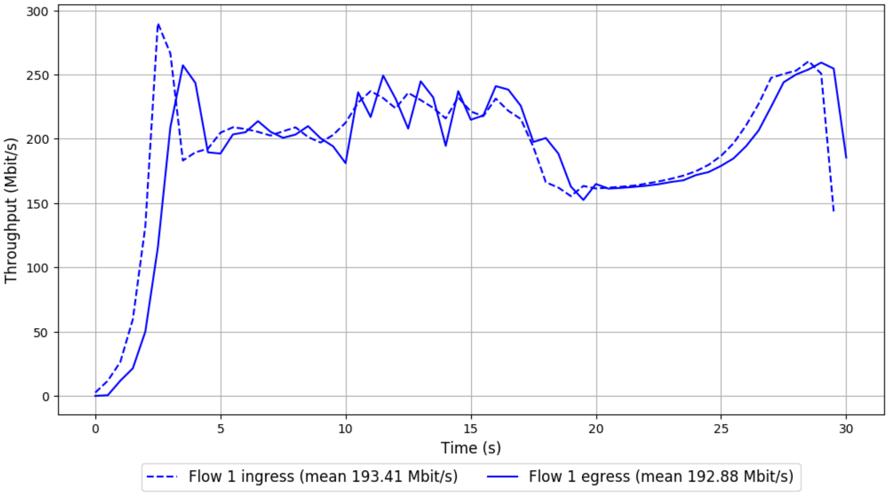
Run 10: Report of PCC-Allegro — Data Link

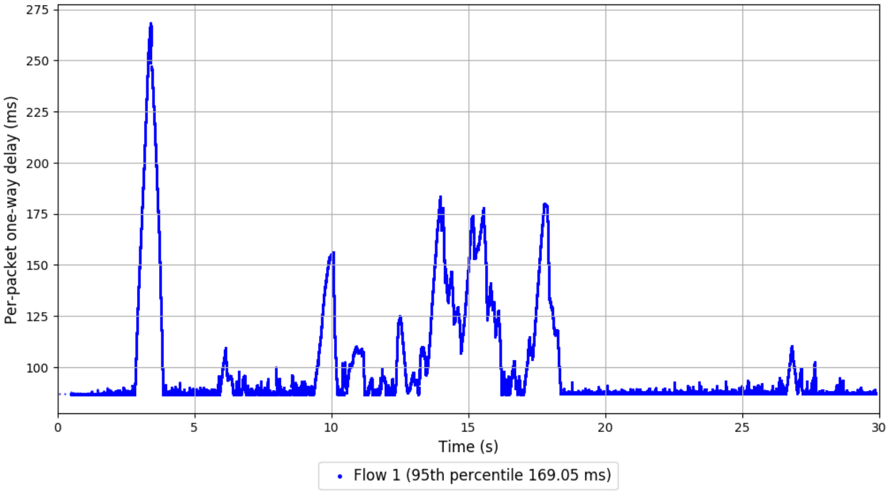




```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-23 23:41:12
End at: 2018-05-23 23:41:42
Local clock offset: 10.192 ms
Remote clock offset: 8.03 ms

# Below is generated by plot.py at 2018-05-24 04:07:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 192.88 Mbit/s
95th percentile per-packet one-way delay: 169.054 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 192.88 Mbit/s
95th percentile per-packet one-way delay: 169.054 ms
Loss rate: 0.27%
```

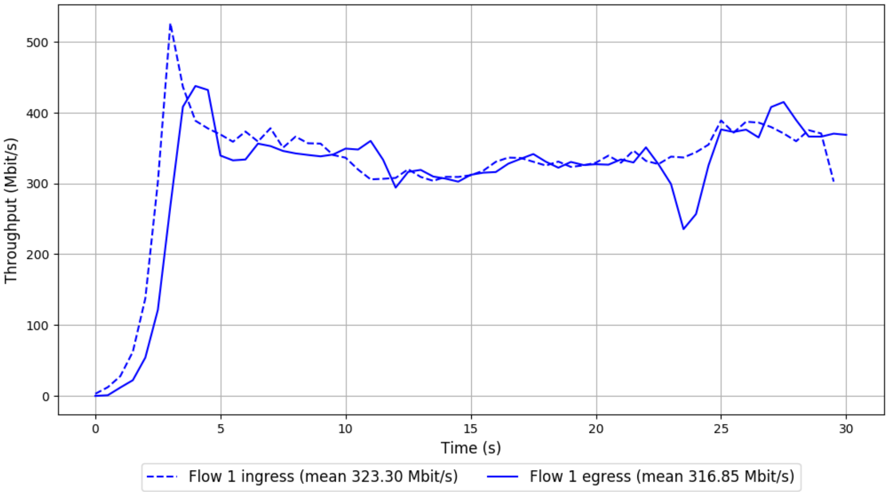
Run 1: Report of PCC-Expr — Data Link

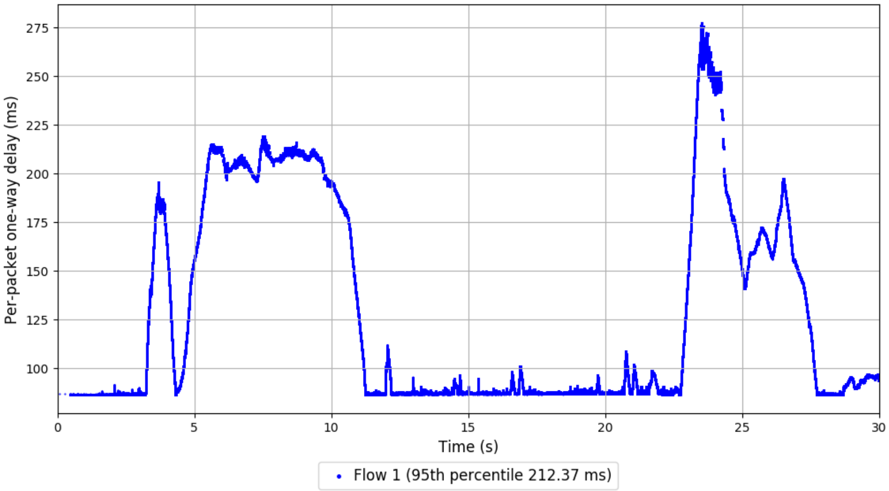




```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-24 00:01:47
End at: 2018-05-24 00:02:17
Local clock offset: 26.47 ms
Remote clock offset: 20.896 ms

# Below is generated by plot.py at 2018-05-24 04:07:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 316.85 Mbit/s
95th percentile per-packet one-way delay: 212.374 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 316.85 Mbit/s
95th percentile per-packet one-way delay: 212.374 ms
Loss rate: 2.00%
```

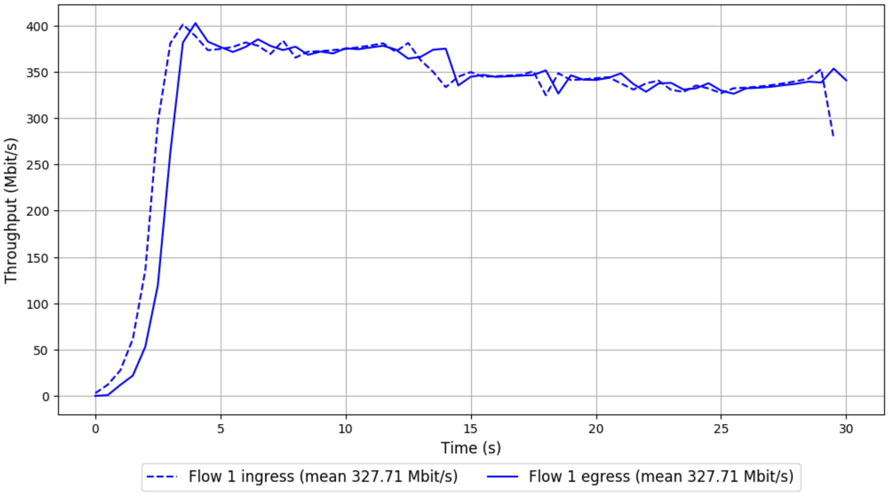
Run 2: Report of PCC-Expr — Data Link

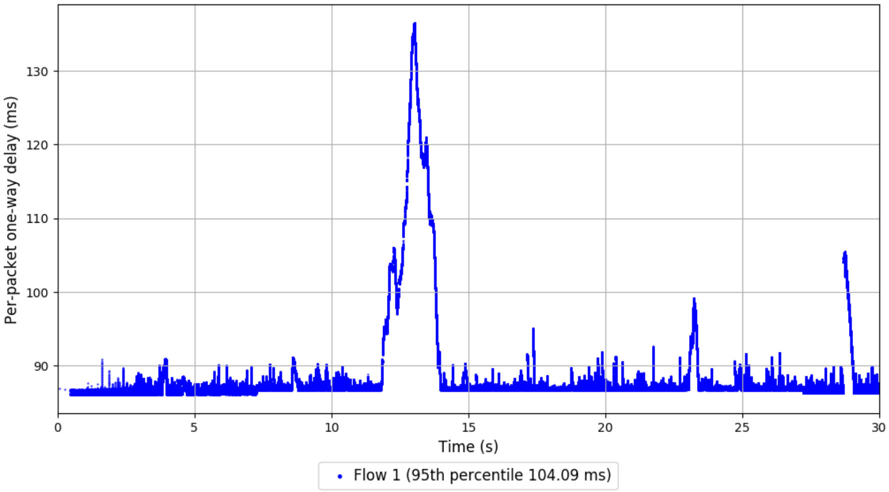




```
Run 3: Statistics of PCC-Expr

Start at: 2018-05-24 00:23:02
End at: 2018-05-24 00:23:32
Local clock offset: 27.633 ms
Remote clock offset: 21.914 ms

# Below is generated by plot.py at 2018-05-24 04:09:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.71 Mbit/s
95th percentile per-packet one-way delay: 104.088 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 327.71 Mbit/s
95th percentile per-packet one-way delay: 104.088 ms
Loss rate: 0.00%
```

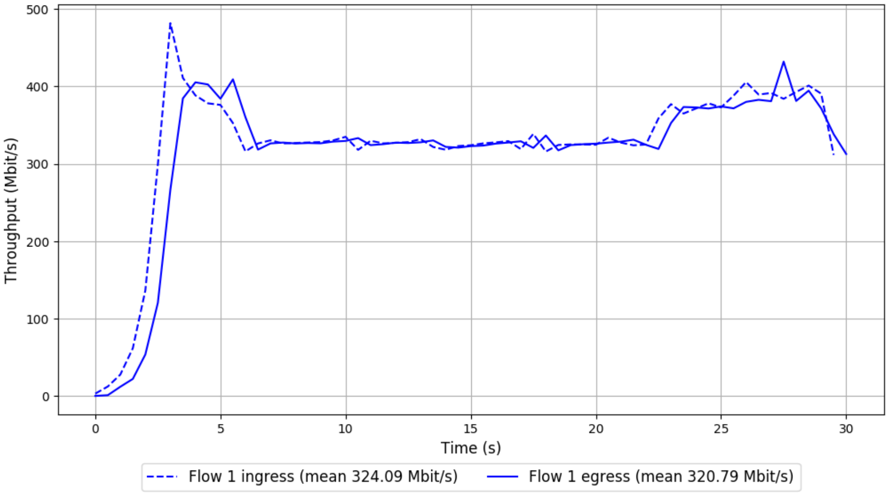
Run 3: Report of PCC-Expr — Data Link

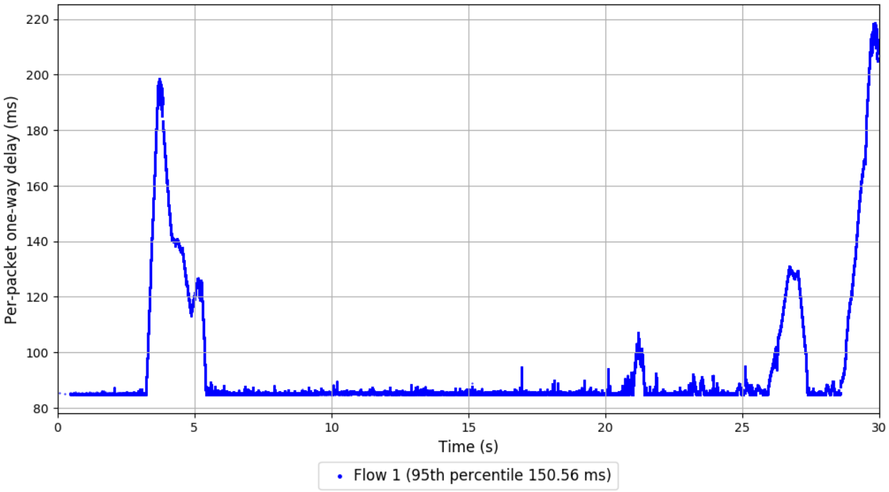




```
Run 4: Statistics of PCC-Expr

Start at: 2018-05-24 00:44:10
End at: 2018-05-24 00:44:40
Local clock offset: 25.111 ms
Remote clock offset: 19.414 ms

# Below is generated by plot.py at 2018-05-24 04:10:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 320.79 Mbit/s
95th percentile per-packet one-way delay: 150.558 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 320.79 Mbit/s
95th percentile per-packet one-way delay: 150.558 ms
Loss rate: 1.02%
```

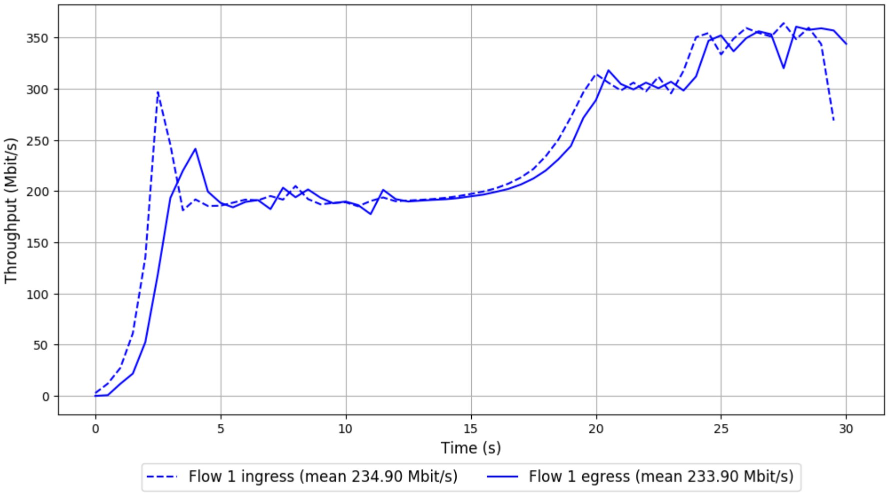
Run 4: Report of PCC-Expr — Data Link

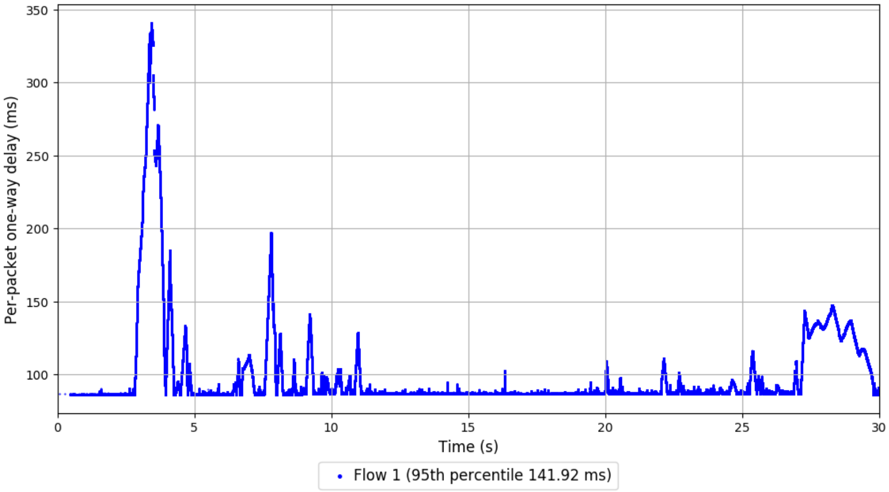




```
Run 5: Statistics of PCC-Expr

Start at: 2018-05-24 01:05:31
End at: 2018-05-24 01:06:01
Local clock offset: 19.154 ms
Remote clock offset: 15.101 ms

# Below is generated by plot.py at 2018-05-24 04:10:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 233.90 Mbit/s
95th percentile per-packet one-way delay: 141.921 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 233.90 Mbit/s
95th percentile per-packet one-way delay: 141.921 ms
Loss rate: 0.43%
```

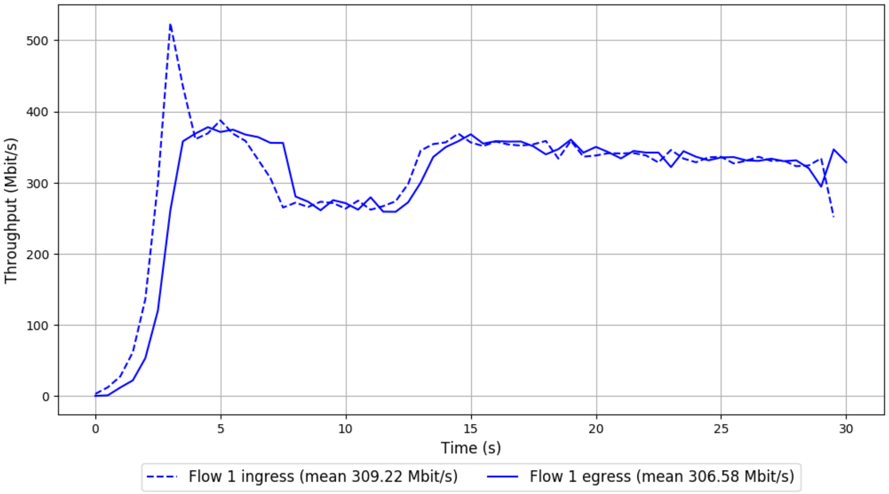
Run 5: Report of PCC-Expr — Data Link

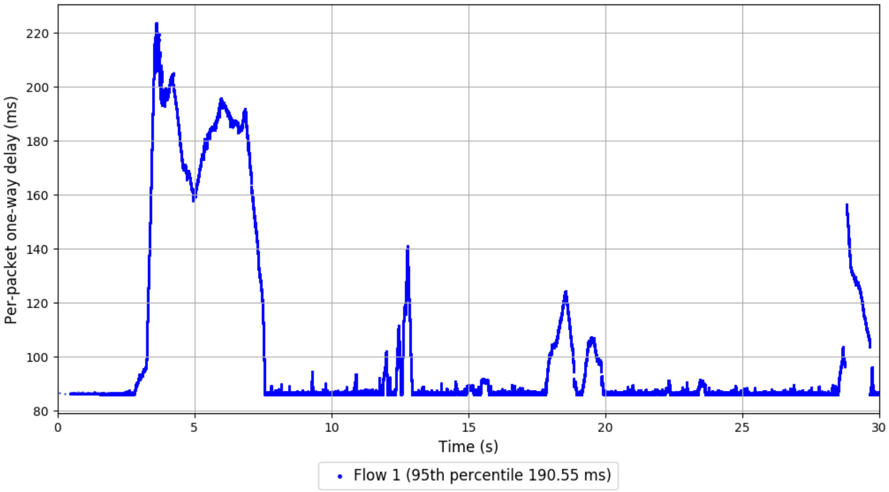




```
Run 6: Statistics of PCC-Expr

Start at: 2018-05-24 01:26:34
End at: 2018-05-24 01:27:04
Local clock offset: 8.413 ms
Remote clock offset: 6.682 ms

# Below is generated by plot.py at 2018-05-24 04:16:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.58 Mbit/s
95th percentile per-packet one-way delay: 190.554 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 306.58 Mbit/s
95th percentile per-packet one-way delay: 190.554 ms
Loss rate: 0.86%
```

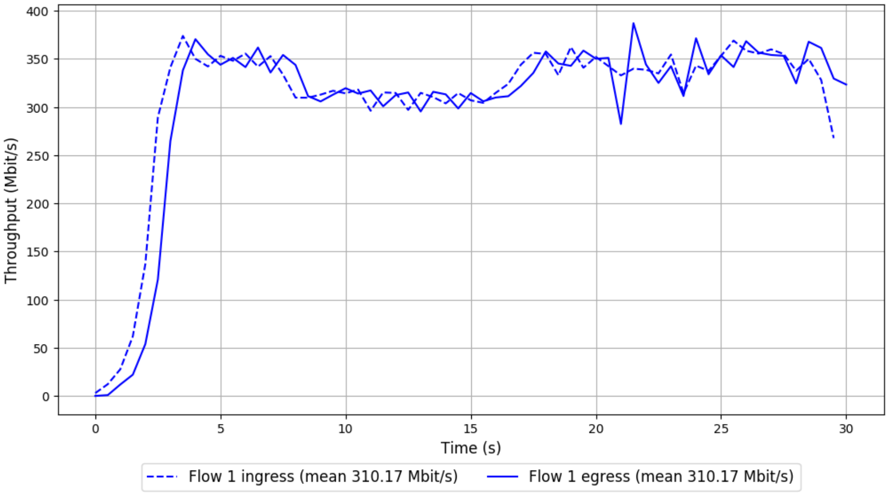
Run 6: Report of PCC-Expr — Data Link

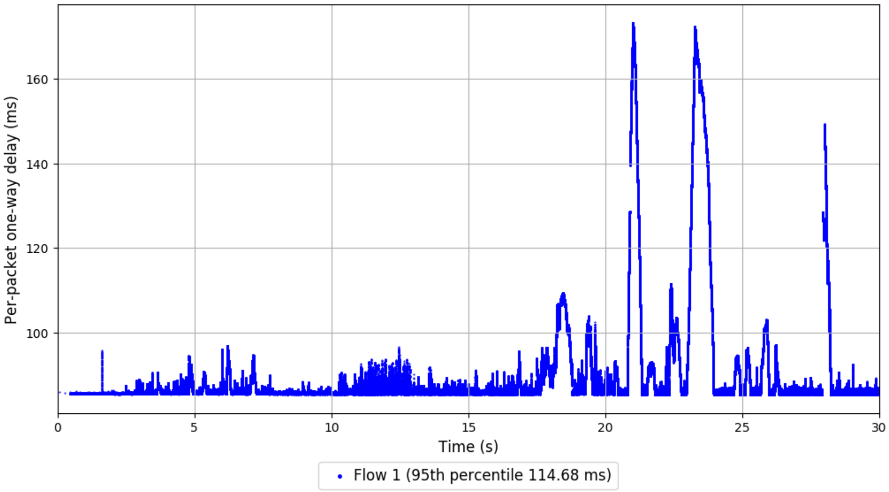




```
Run 7: Statistics of PCC-Expr

Start at: 2018-05-24 01:47:39
End at: 2018-05-24 01:48:09
Local clock offset: 8.935 ms
Remote clock offset: 7.094 ms

# Below is generated by plot.py at 2018-05-24 04:17:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.17 Mbit/s
95th percentile per-packet one-way delay: 114.682 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 310.17 Mbit/s
95th percentile per-packet one-way delay: 114.682 ms
Loss rate: 0.00%
```

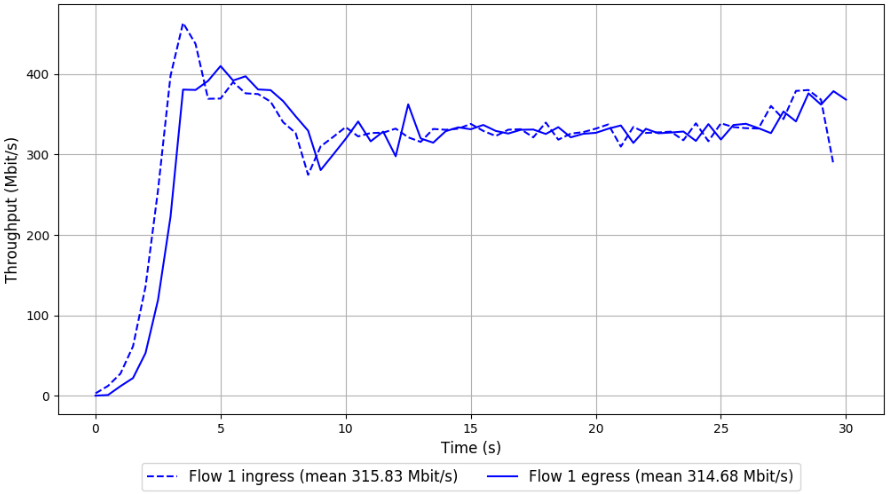
Run 7: Report of PCC-Expr — Data Link

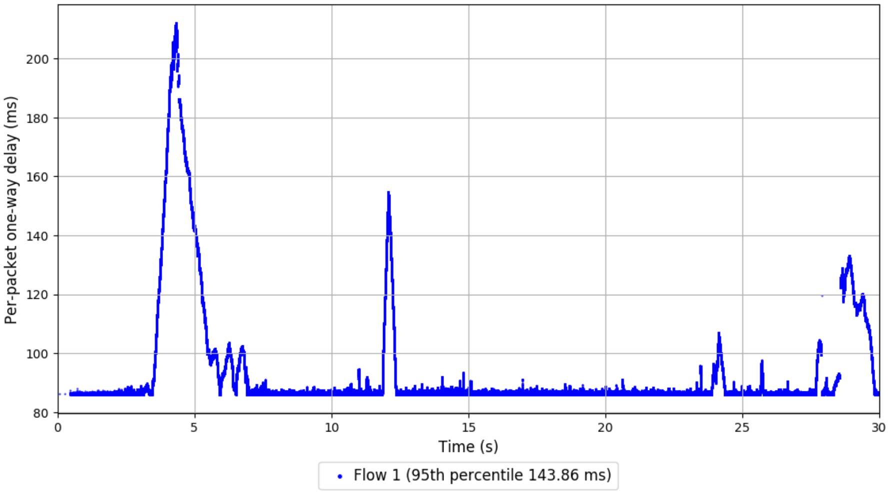




```
Run 8: Statistics of PCC-Expr

Start at: 2018-05-24 02:08:37
End at: 2018-05-24 02:09:07
Local clock offset: 2.1 ms
Remote clock offset: 1.76 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 314.68 Mbit/s
95th percentile per-packet one-way delay: 143.864 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 314.68 Mbit/s
95th percentile per-packet one-way delay: 143.864 ms
Loss rate: 0.36%
```

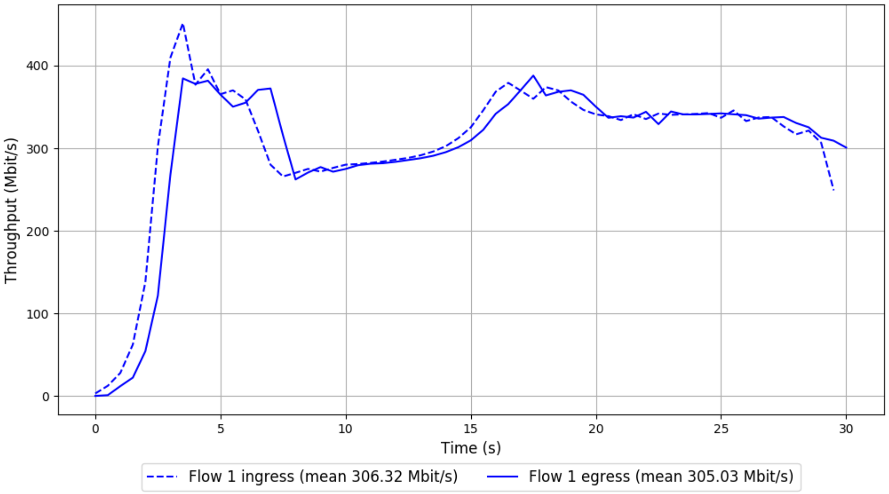
Run 8: Report of PCC-Expr — Data Link

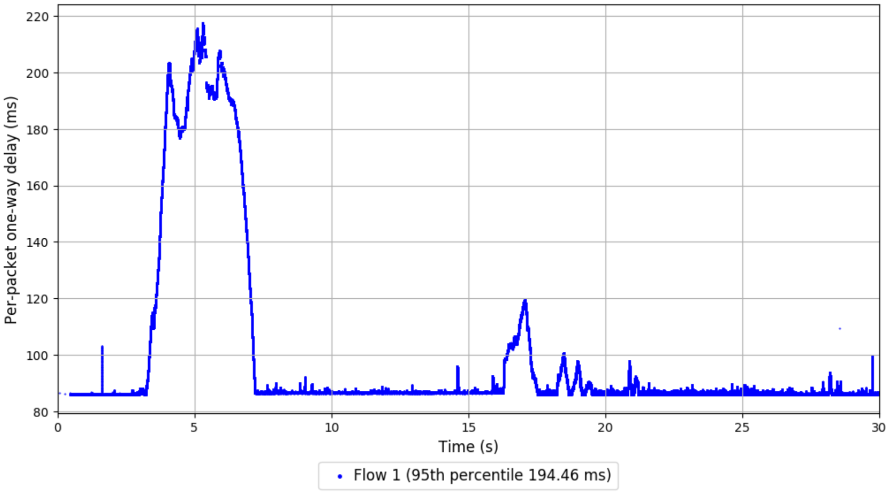




```
Run 9: Statistics of PCC-Expr

Start at: 2018-05-24 02:29:33
End at: 2018-05-24 02:30:03
Local clock offset: 1.1 ms
Remote clock offset: 0.806 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 305.03 Mbit/s
95th percentile per-packet one-way delay: 194.464 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 305.03 Mbit/s
95th percentile per-packet one-way delay: 194.464 ms
Loss rate: 0.42%
```

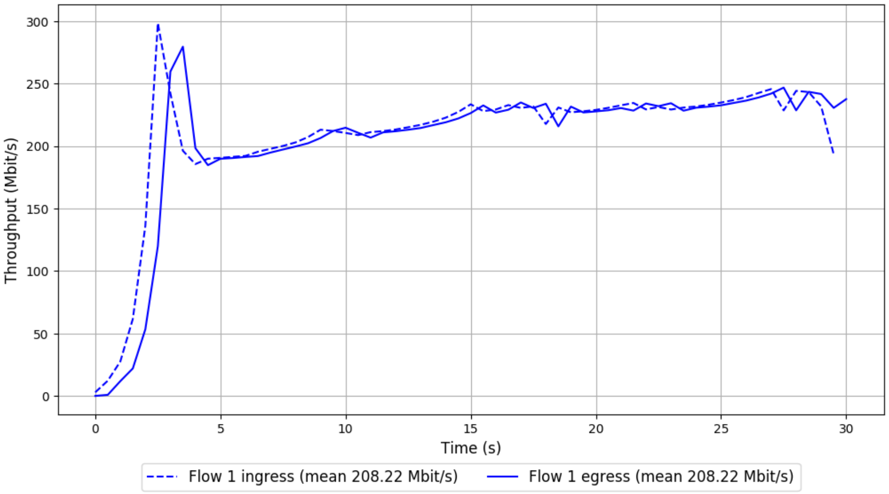
Run 9: Report of PCC-Expr — Data Link

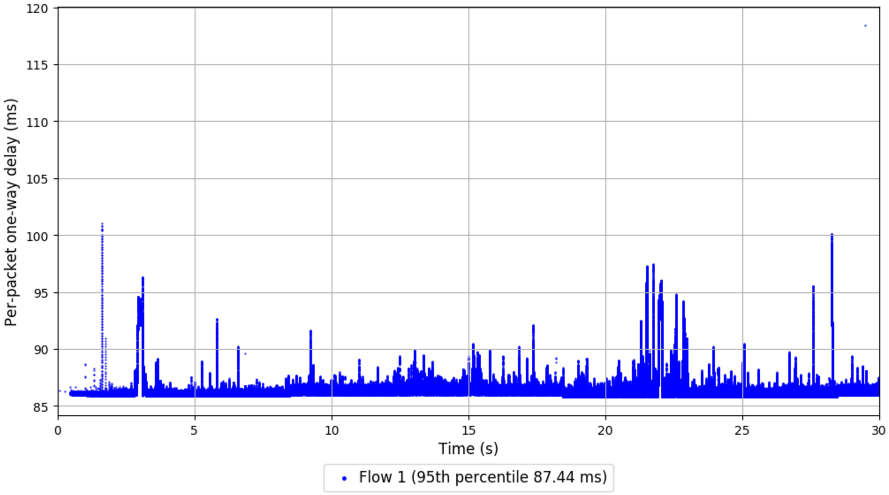




```
Run 10: Statistics of PCC-Expr

Start at: 2018-05-24 02:50:41
End at: 2018-05-24 02:51:11
Local clock offset: 1.1 ms
Remote clock offset: 0.741 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 208.22 Mbit/s
95th percentile per-packet one-way delay: 87.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.22 Mbit/s
95th percentile per-packet one-way delay: 87.439 ms
Loss rate: 0.00%
```

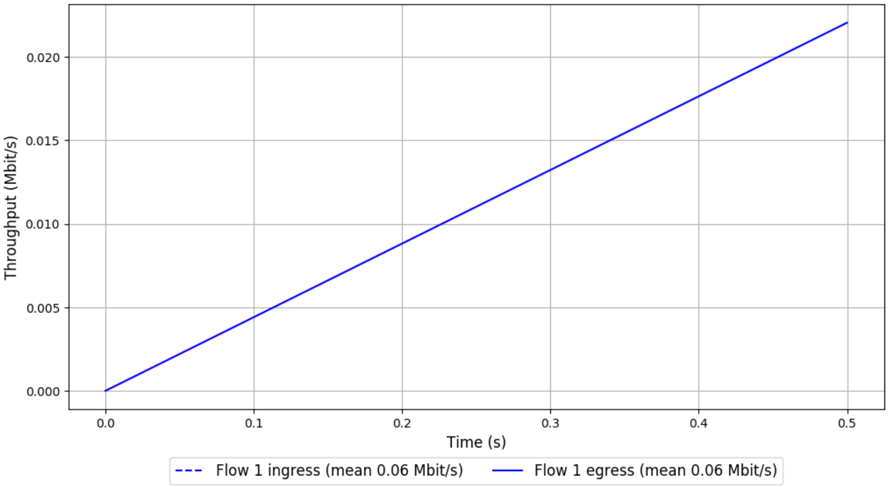
Run 10: Report of PCC-Expr — Data Link

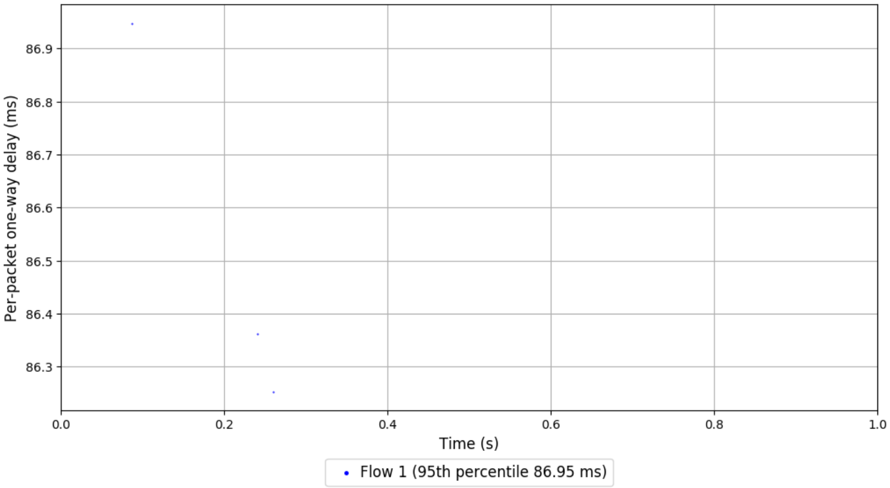




```
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-23 23:38:52
End at: 2018-05-23 23:39:22
Local clock offset: 10.701 ms
Remote clock offset: 8.496 ms
```

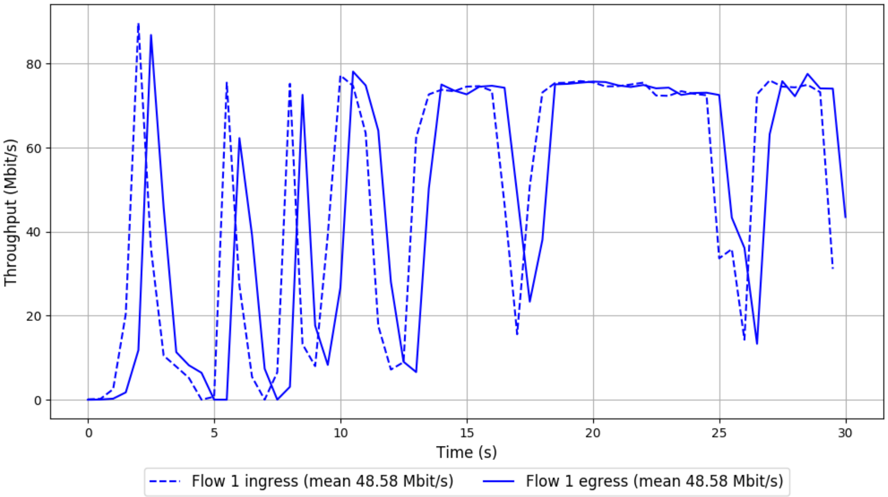
Run 1: Report of QUIC Cubic — Data Link

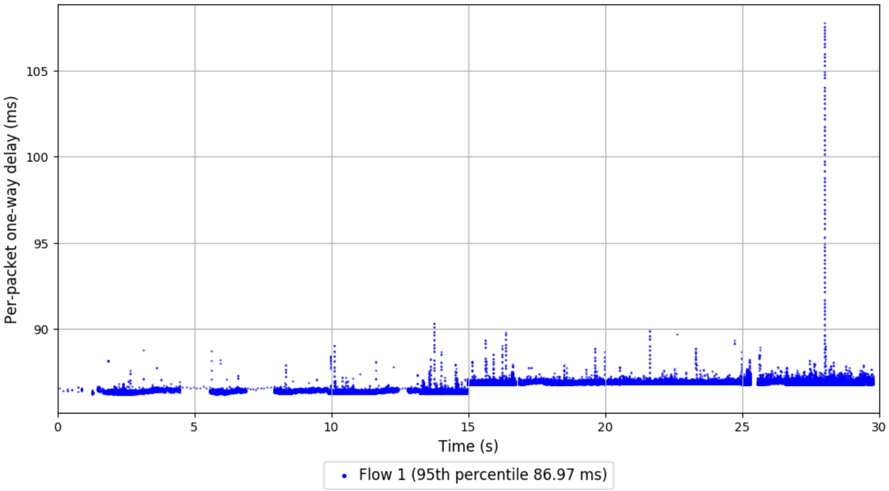




```
Run 2: Statistics of QUIC Cubic

Start at: 2018-05-23 23:59:24
End at: 2018-05-23 23:59:54
Local clock offset: 22.993 ms
Remote clock offset: 17.989 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.58 Mbit/s
95th percentile per-packet one-way delay: 86.972 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.58 Mbit/s
95th percentile per-packet one-way delay: 86.972 ms
Loss rate: 0.00%
```

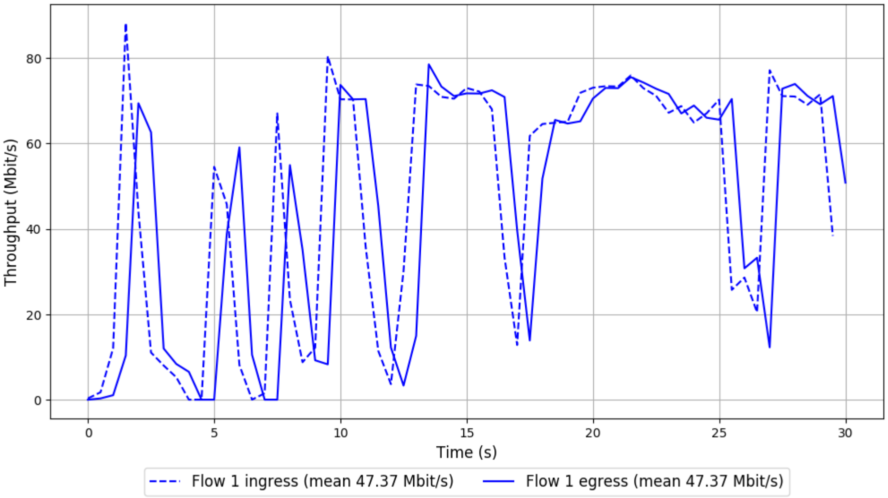
Run 2: Report of QUIC Cubic — Data Link

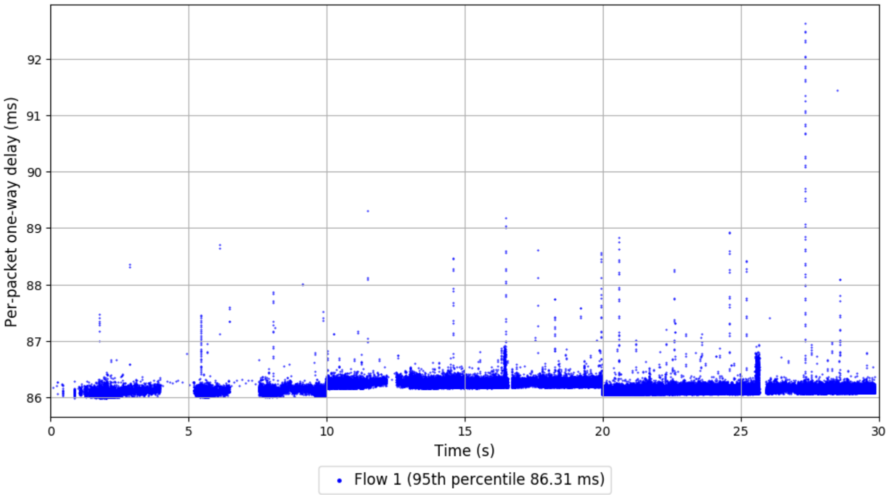




```
Run 3: Statistics of QUIC Cubic

Start at: 2018-05-24 00:20:39
End at: 2018-05-24 00:21:09
Local clock offset: 25.729 ms
Remote clock offset: 20.294 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.37 Mbit/s
95th percentile per-packet one-way delay: 86.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.37 Mbit/s
95th percentile per-packet one-way delay: 86.305 ms
Loss rate: 0.00%
```

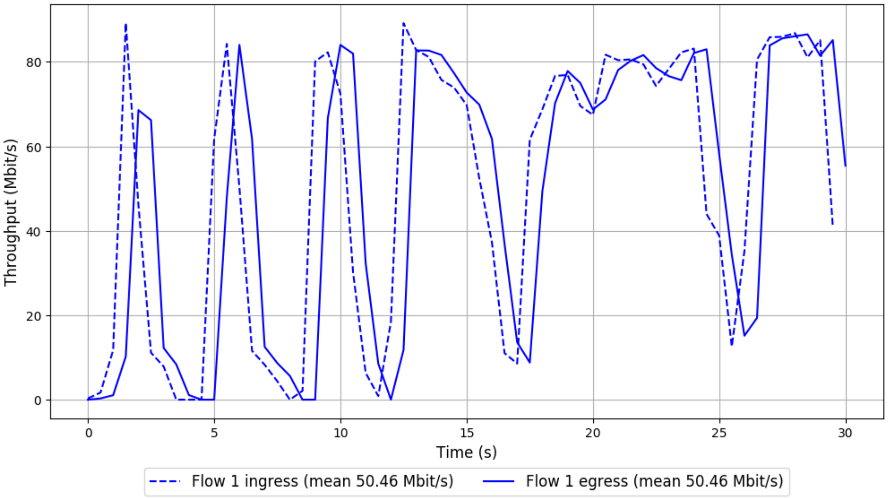
Run 3: Report of QUIC Cubic — Data Link

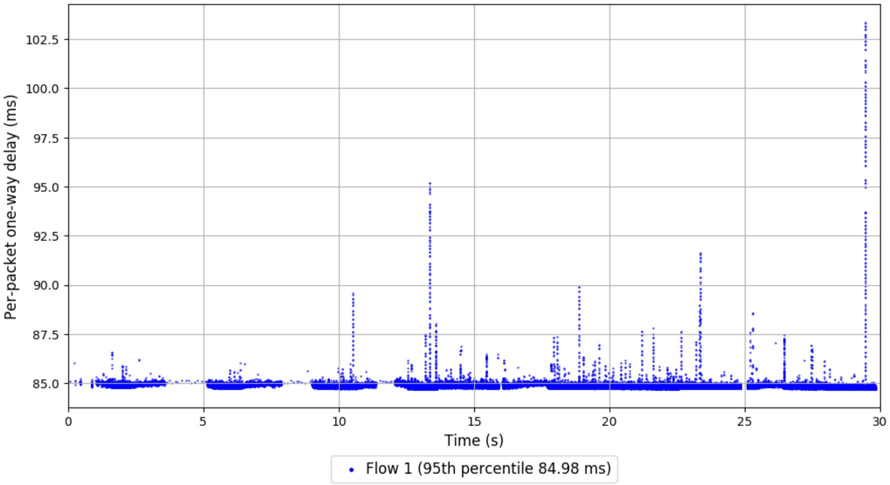




```
Run 4: Statistics of QUIC Cubic

Start at: 2018-05-24 00:41:47
End at: 2018-05-24 00:42:17
Local clock offset: 30.0 ms
Remote clock offset: 23.636 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.46 Mbit/s
95th percentile per-packet one-way delay: 84.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.46 Mbit/s
95th percentile per-packet one-way delay: 84.978 ms
Loss rate: 0.00%
```

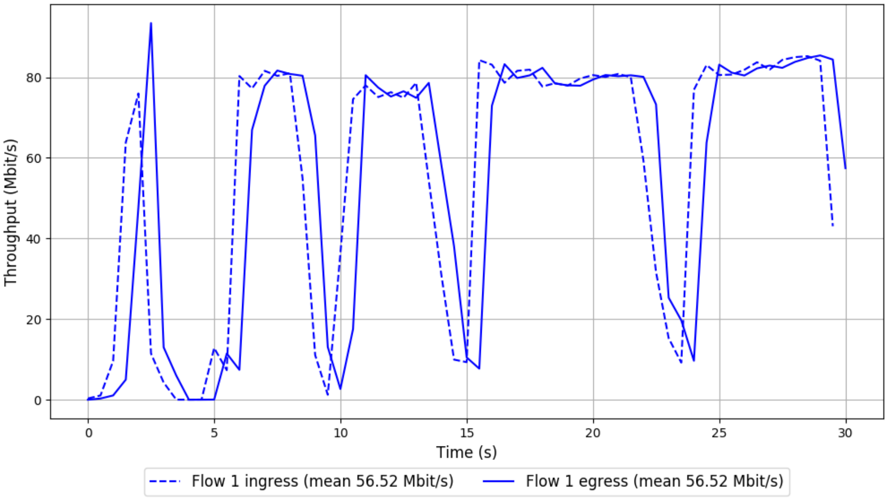
Run 4: Report of QUIC Cubic — Data Link

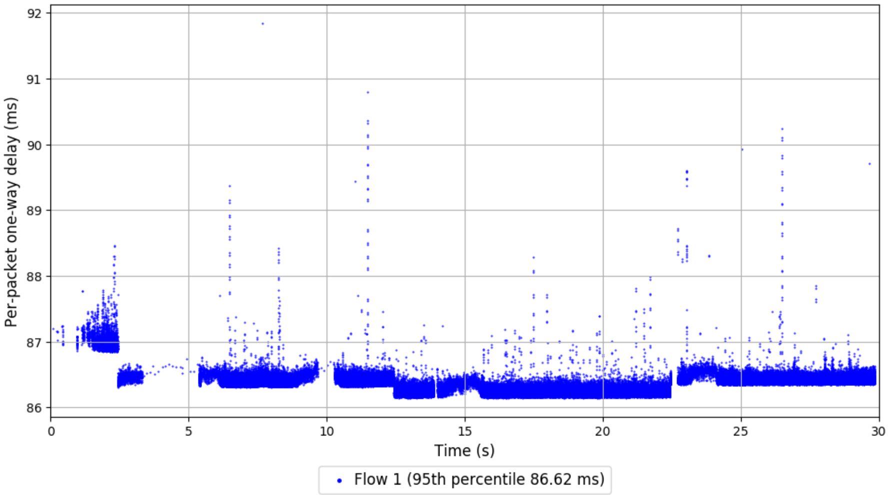




```
Run 5: Statistics of QUIC Cubic

Start at: 2018-05-24 01:03:07
End at: 2018-05-24 01:03:37
Local clock offset: 18.235 ms
Remote clock offset: 14.393 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.52 Mbit/s
95th percentile per-packet one-way delay: 86.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 56.52 Mbit/s
95th percentile per-packet one-way delay: 86.616 ms
Loss rate: 0.00%
```

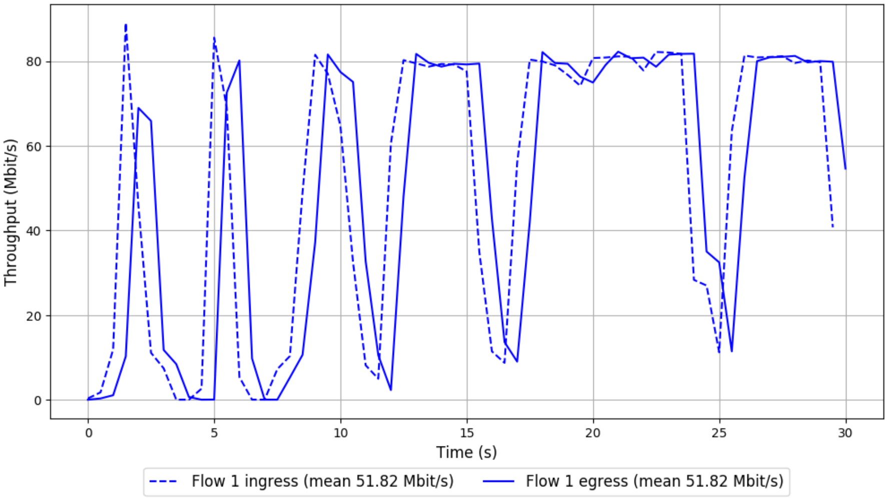
Run 5: Report of QUIC Cubic — Data Link

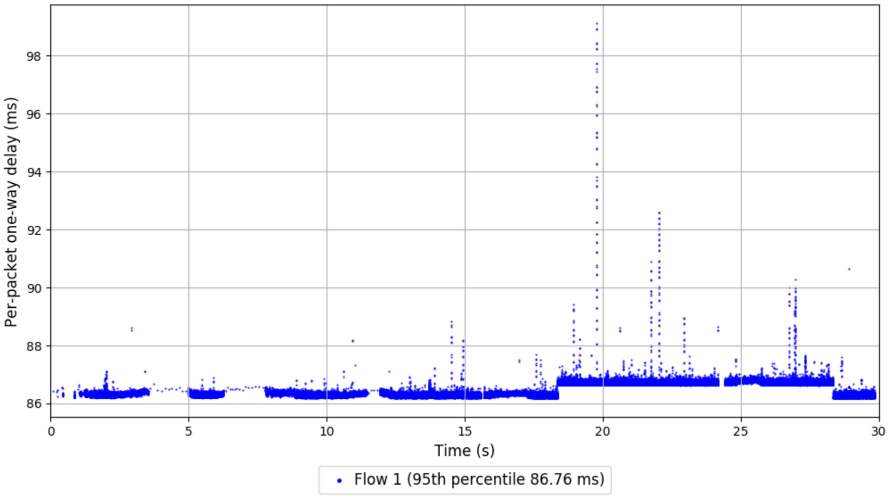




```
Run 6: Statistics of QUIC Cubic

Start at: 2018-05-24 01:24:11
End at: 2018-05-24 01:24:41
Local clock offset: 8.598 ms
Remote clock offset: 7.076 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.82 Mbit/s
95th percentile per-packet one-way delay: 86.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.82 Mbit/s
95th percentile per-packet one-way delay: 86.764 ms
Loss rate: 0.00%
```

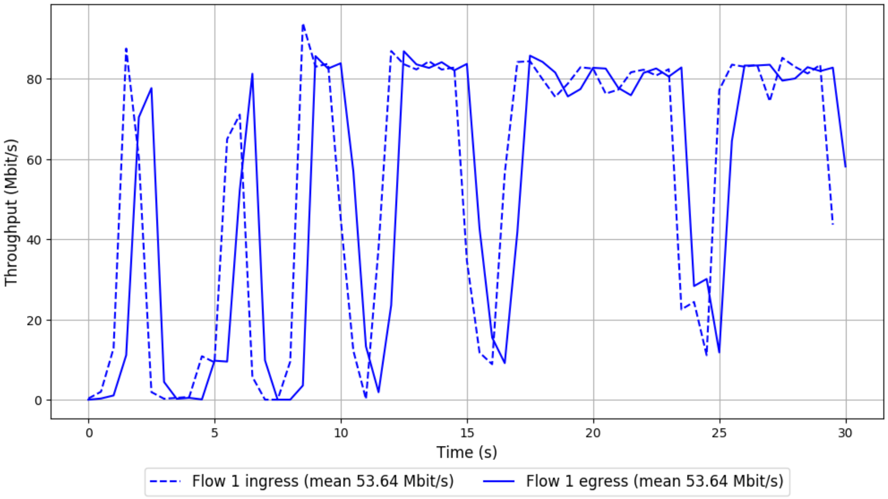
Run 6: Report of QUIC Cubic — Data Link

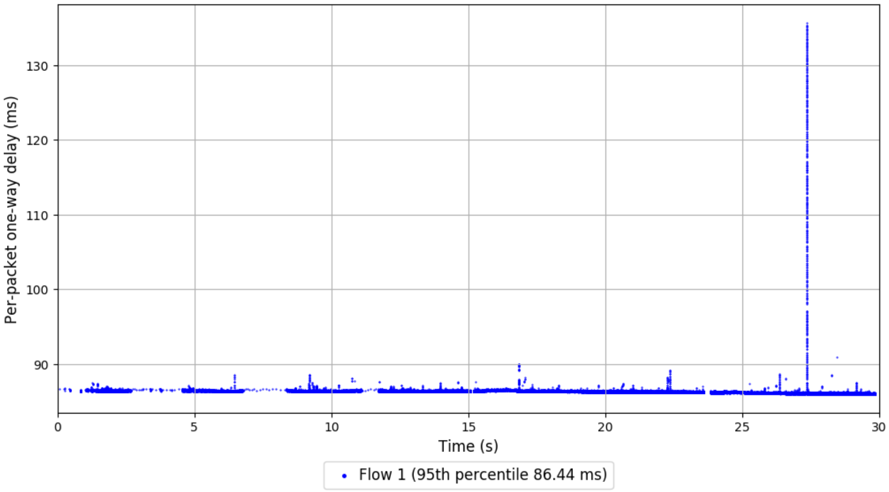




```
Run 7: Statistics of QUIC Cubic

Start at: 2018-05-24 01:45:16
End at: 2018-05-24 01:45:46
Local clock offset: 10.236 ms
Remote clock offset: 8.392 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.64 Mbit/s
95th percentile per-packet one-way delay: 86.440 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.64 Mbit/s
95th percentile per-packet one-way delay: 86.440 ms
Loss rate: 0.00%
```

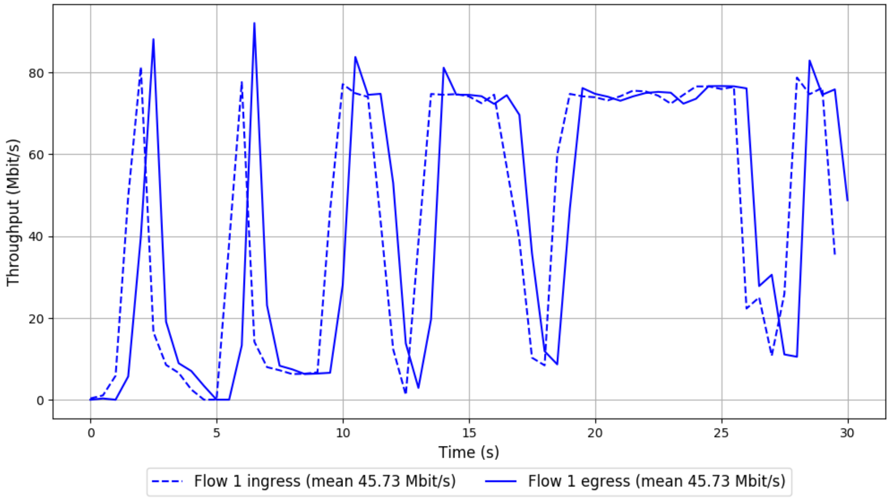
Run 7: Report of QUIC Cubic — Data Link

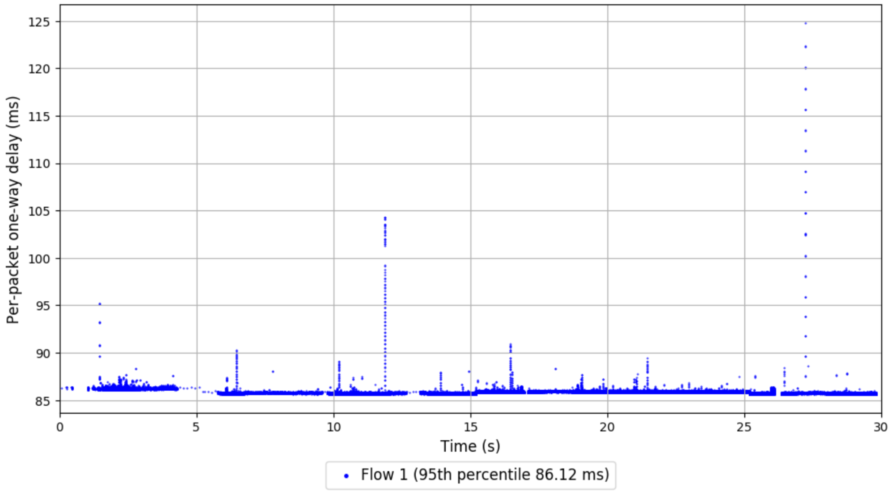




```
Run 8: Statistics of QUIC Cubic

Start at: 2018-05-24 02:06:14
End at: 2018-05-24 02:06:44
Local clock offset: 2.522 ms
Remote clock offset: 1.82 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.73 Mbit/s
95th percentile per-packet one-way delay: 86.121 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 45.73 Mbit/s
95th percentile per-packet one-way delay: 86.121 ms
Loss rate: 0.00%
```

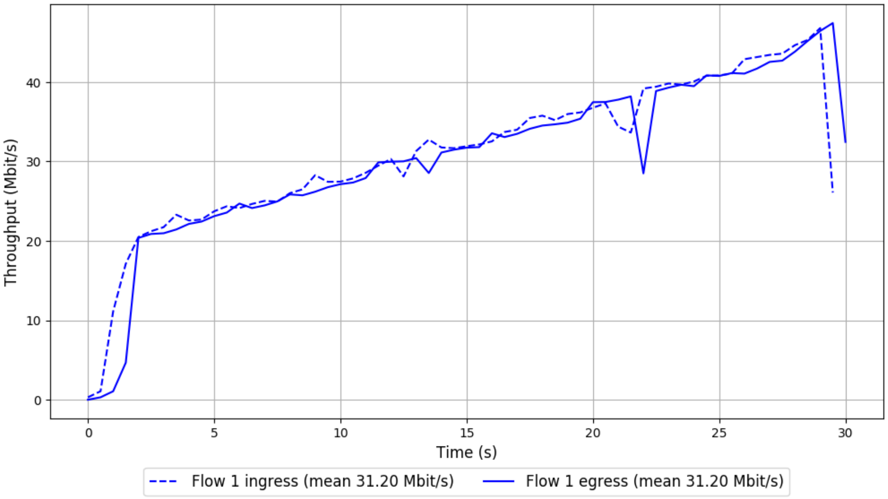
Run 8: Report of QUIC Cubic — Data Link

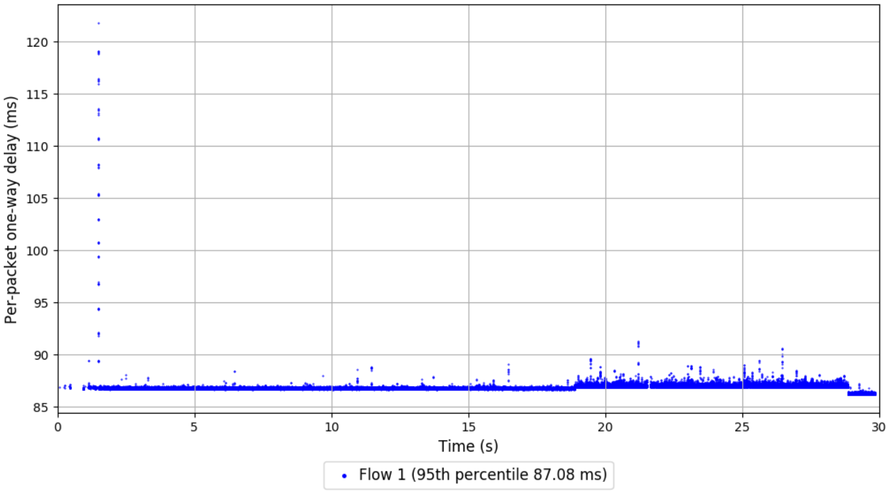




```
Run 9: Statistics of QUIC Cubic

Start at: 2018-05-24 02:27:10
End at: 2018-05-24 02:27:41
Local clock offset: 1.011 ms
Remote clock offset: 0.954 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.20 Mbit/s
95th percentile per-packet one-way delay: 87.082 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.20 Mbit/s
95th percentile per-packet one-way delay: 87.082 ms
Loss rate: 0.00%
```

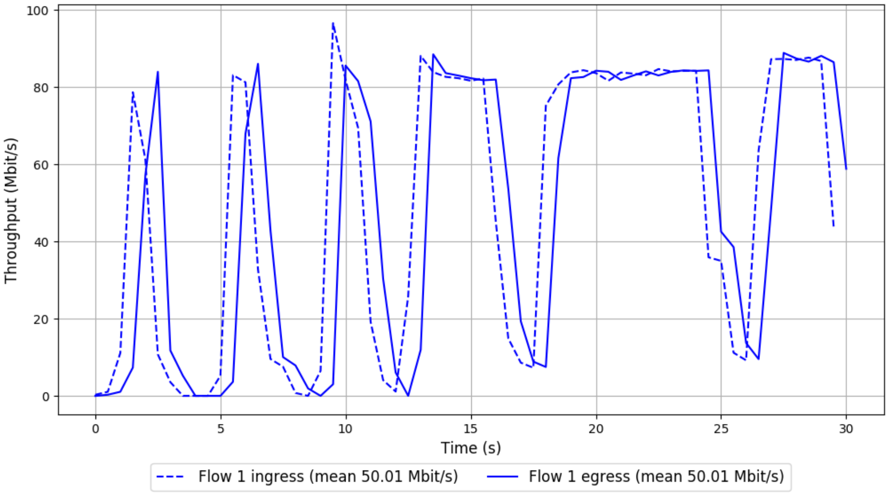
Run 9: Report of QUIC Cubic — Data Link

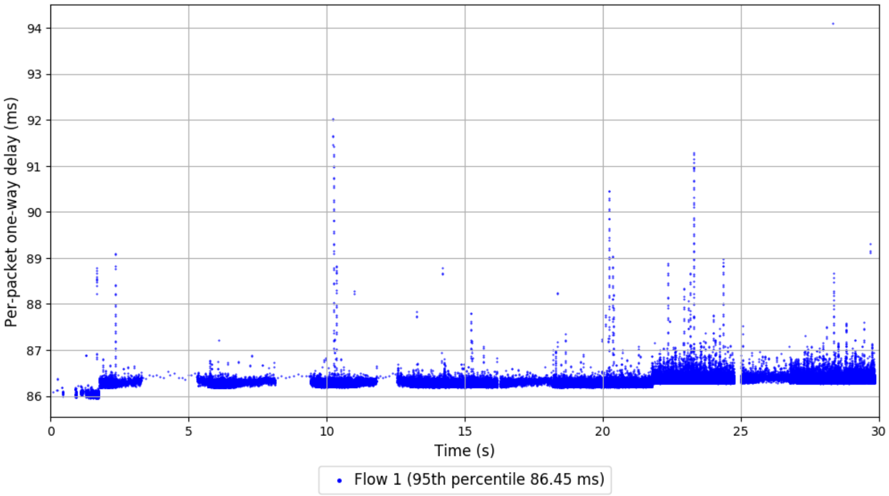




```
Run 10: Statistics of QUIC Cubic

Start at: 2018-05-24 02:48:18
End at: 2018-05-24 02:48:48
Local clock offset: 0.871 ms
Remote clock offset: 0.635 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.01 Mbit/s
95th percentile per-packet one-way delay: 86.450 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.01 Mbit/s
95th percentile per-packet one-way delay: 86.450 ms
Loss rate: 0.00%
```

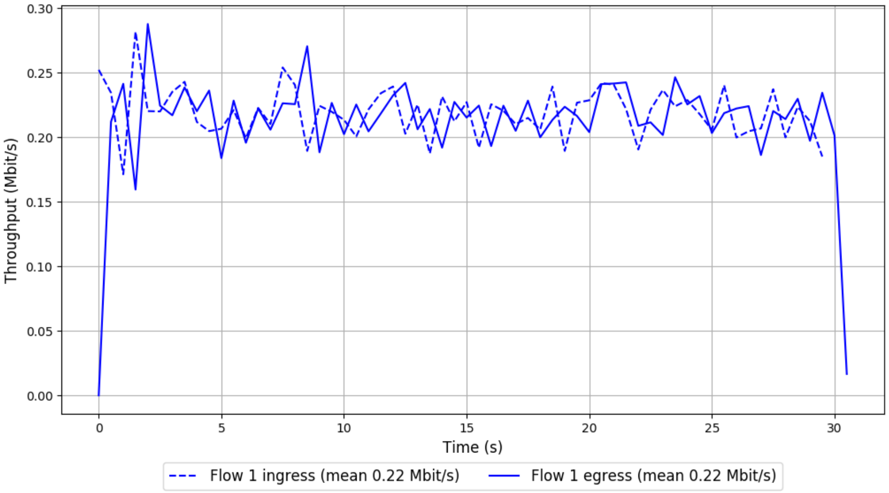
Run 10: Report of QUIC Cubic — Data Link

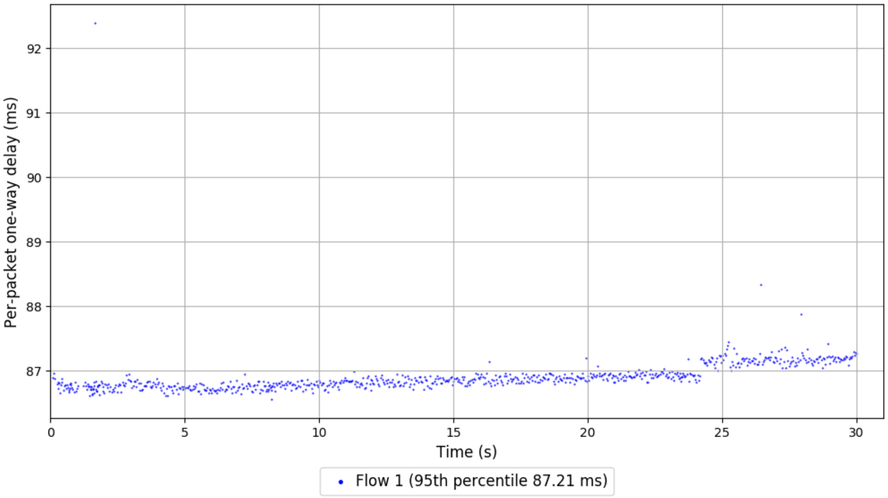




```
Run 1: Statistics of SCReAM

Start at: 2018-05-23 23:36:05
End at: 2018-05-23 23:36:35
Local clock offset: 8.364 ms
Remote clock offset: 6.339 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.206 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.206 ms
Loss rate: 0.00%
```

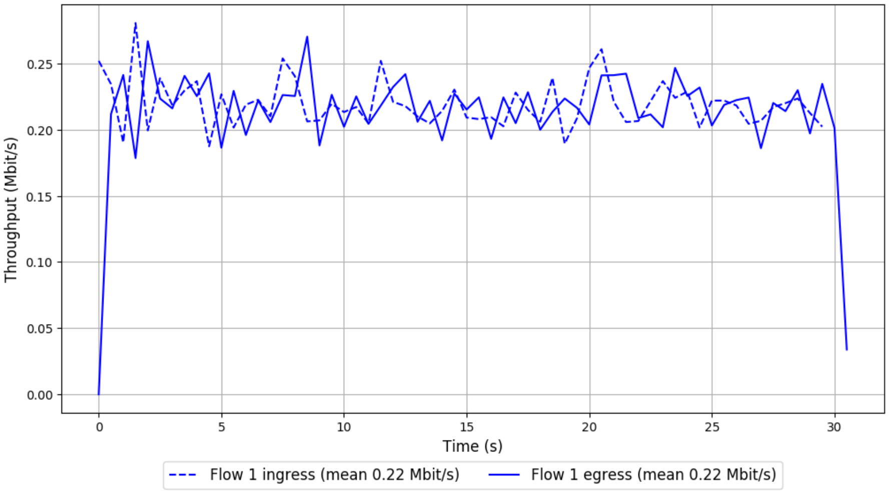
Run 1: Report of SCReAM — Data Link

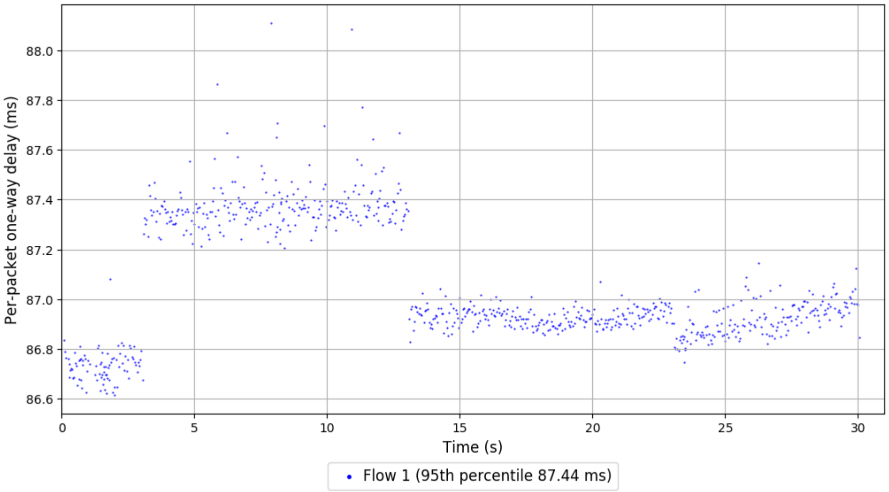




```
Run 2: Statistics of SCReAM

Start at: 2018-05-23 23:56:36
End at: 2018-05-23 23:57:06
Local clock offset: 18.93 ms
Remote clock offset: 15.067 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.436 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.436 ms
Loss rate: 0.00%
```

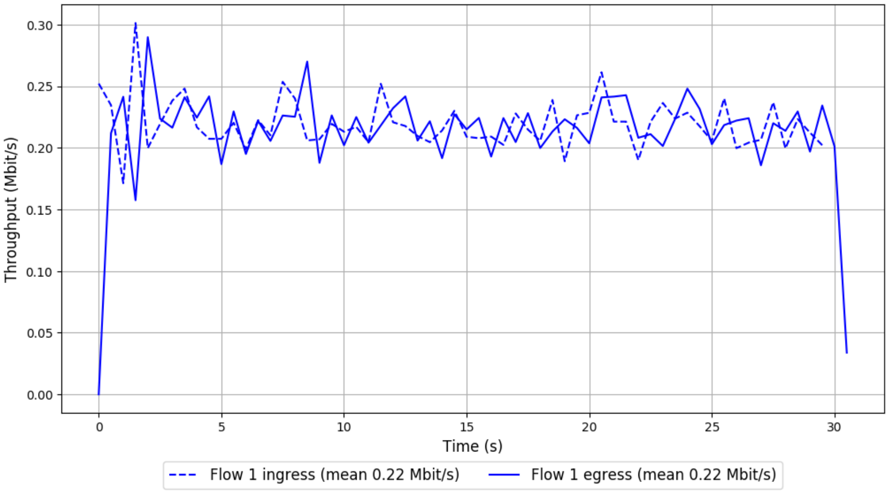
Run 2: Report of SCReAM — Data Link

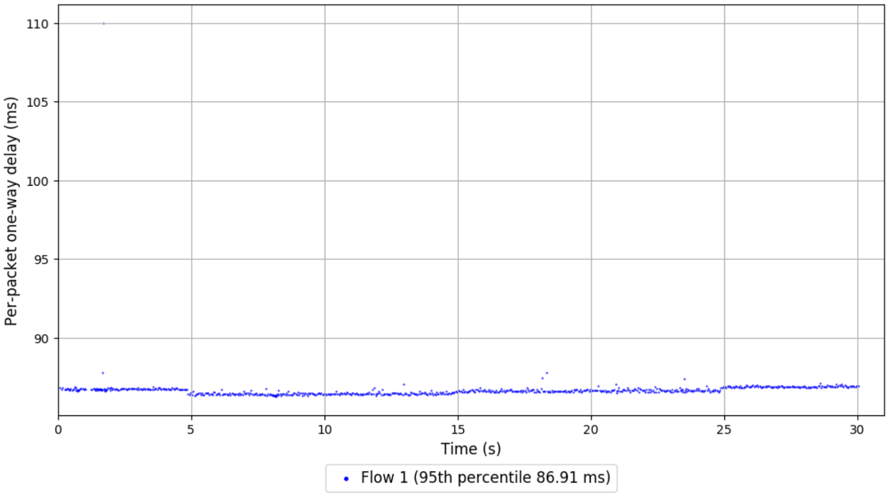




```
Run 3: Statistics of SCReAM

Start at: 2018-05-24 00:17:55
End at: 2018-05-24 00:18:25
Local clock offset: 23.677 ms
Remote clock offset: 18.751 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.913 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.913 ms
Loss rate: 0.00%
```

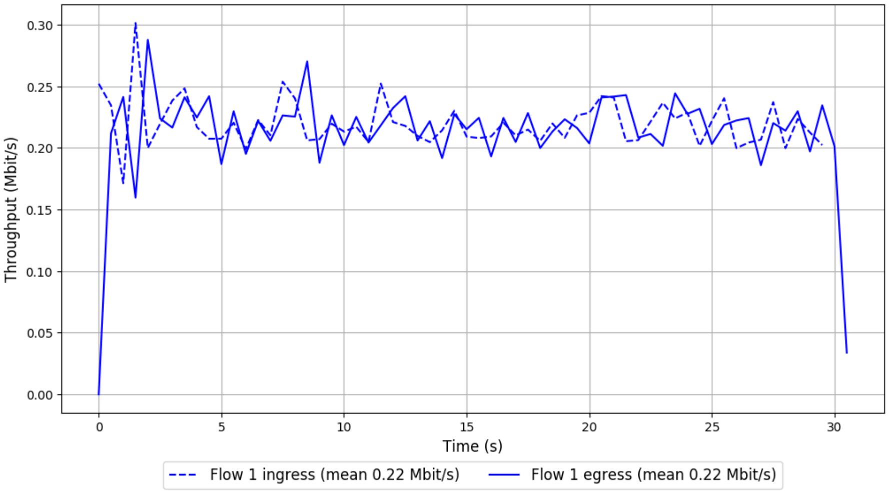
Run 3: Report of SCReAM — Data Link

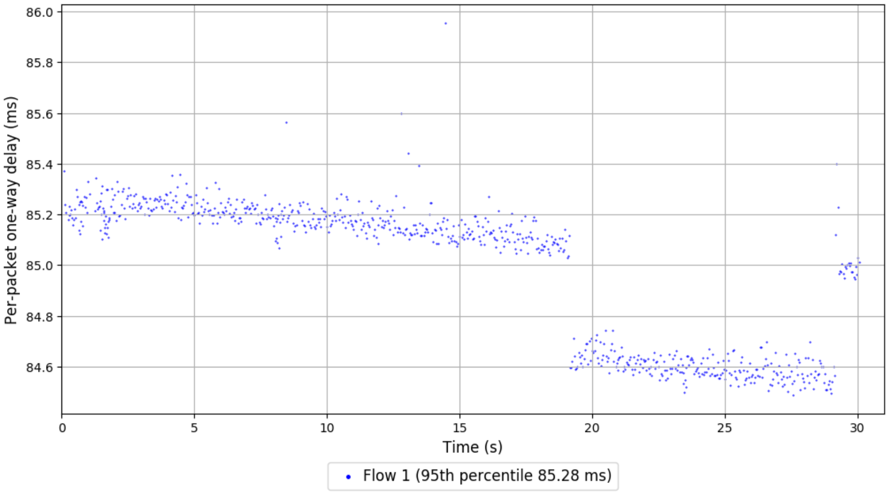




```
Run 4: Statistics of SCReAM

Start at: 2018-05-24 00:39:00
End at: 2018-05-24 00:39:30
Local clock offset: 38.515 ms
Remote clock offset: 30.568 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.275 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 85.275 ms
Loss rate: 0.00%
```

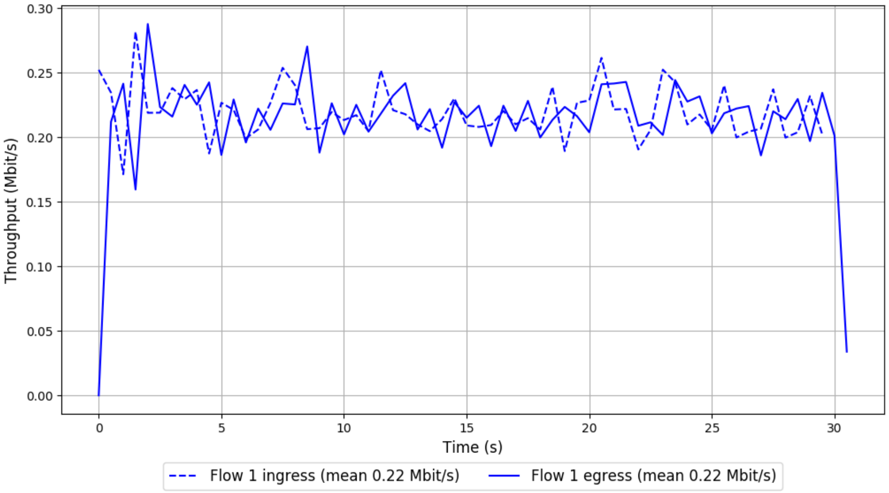
Run 4: Report of SCReAM — Data Link

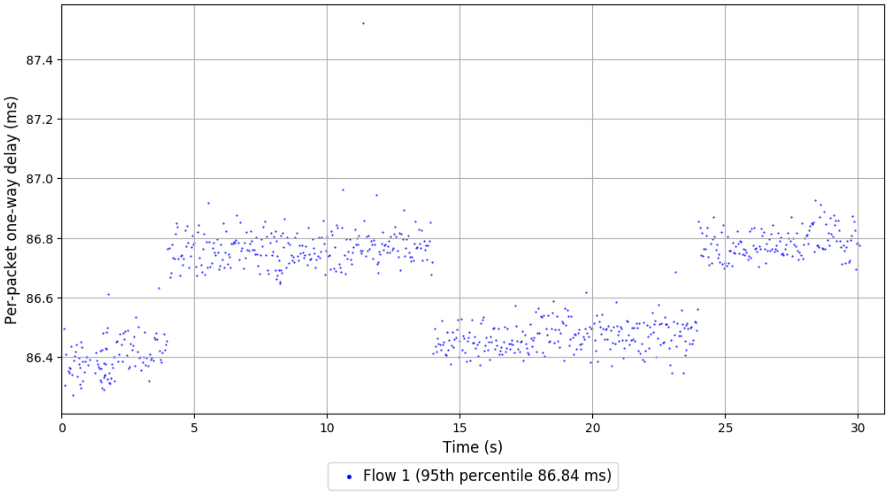




```
Run 5: Statistics of SCReAM

Start at: 2018-05-24 01:00:16
End at: 2018-05-24 01:00:46
Local clock offset: 17.412 ms
Remote clock offset: 13.671 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.842 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.842 ms
Loss rate: 0.00%
```

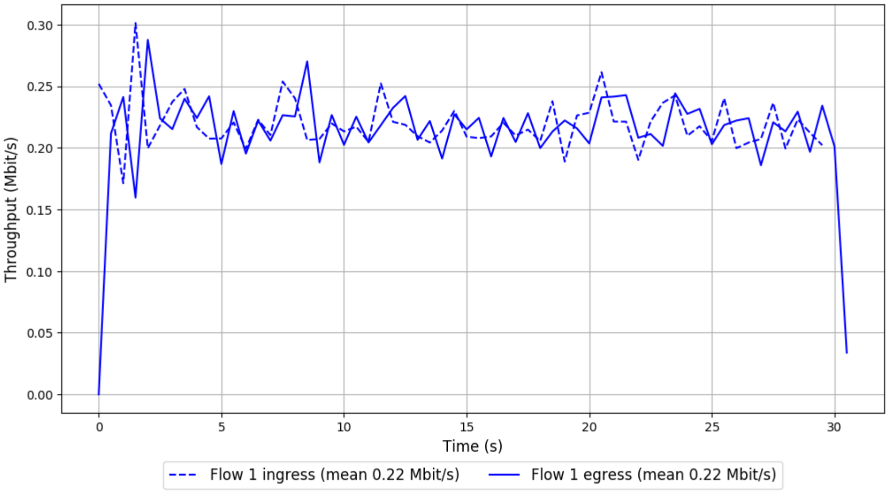
Run 5: Report of SCReAM — Data Link

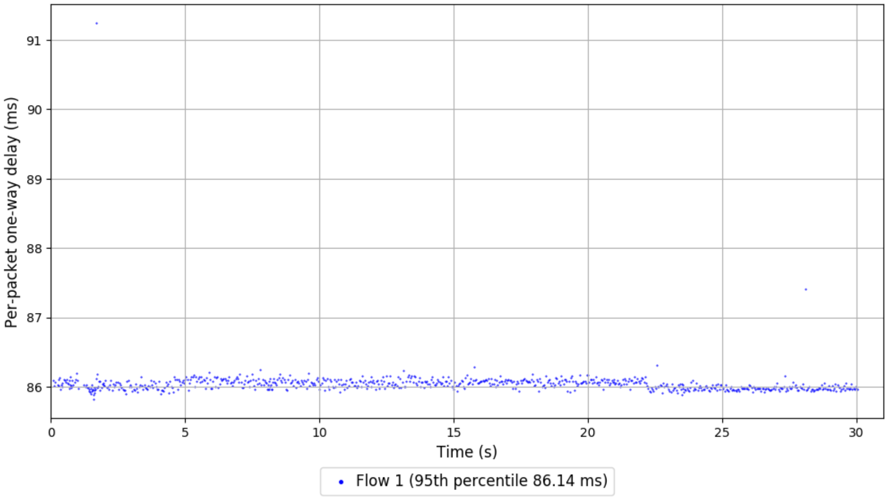




```
Run 6: Statistics of SCReAM

Start at: 2018-05-24 01:21:25
End at: 2018-05-24 01:21:55
Local clock offset: 10.102 ms
Remote clock offset: 7.969 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.143 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.143 ms
Loss rate: 0.00%
```

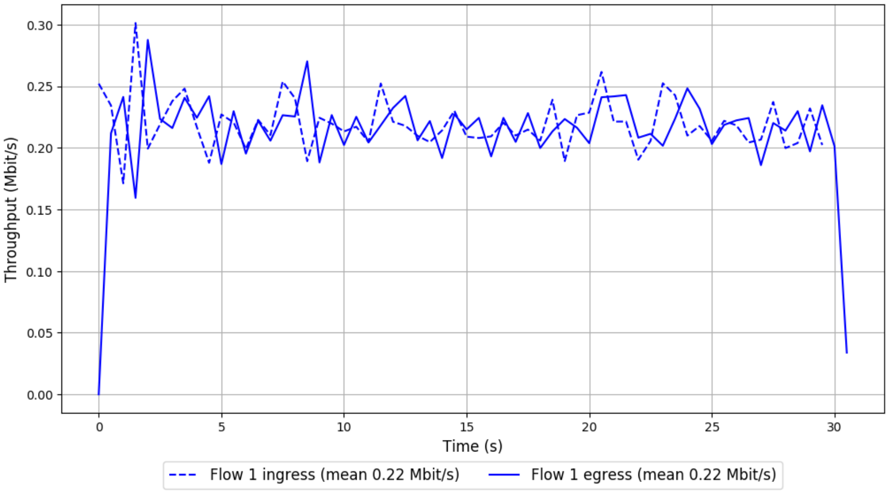
Run 6: Report of SCReAM — Data Link

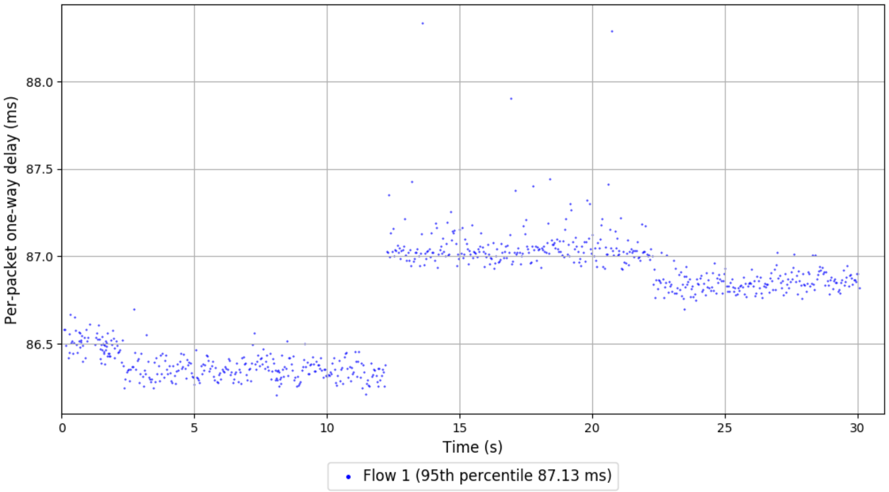




```
Run 7: Statistics of SCReAM

Start at: 2018-05-24 01:42:27
End at: 2018-05-24 01:42:57
Local clock offset: 9.743 ms
Remote clock offset: 7.816 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.132 ms
Loss rate: 0.00%
```

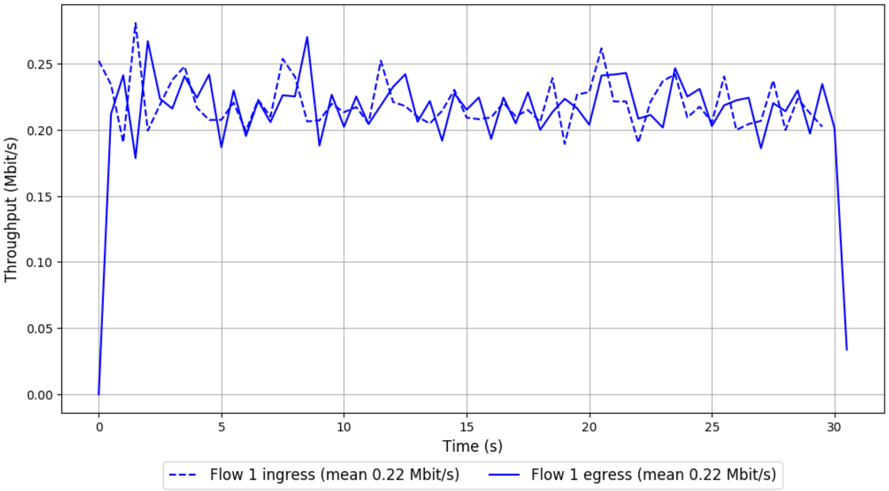
Run 7: Report of SCReAM — Data Link

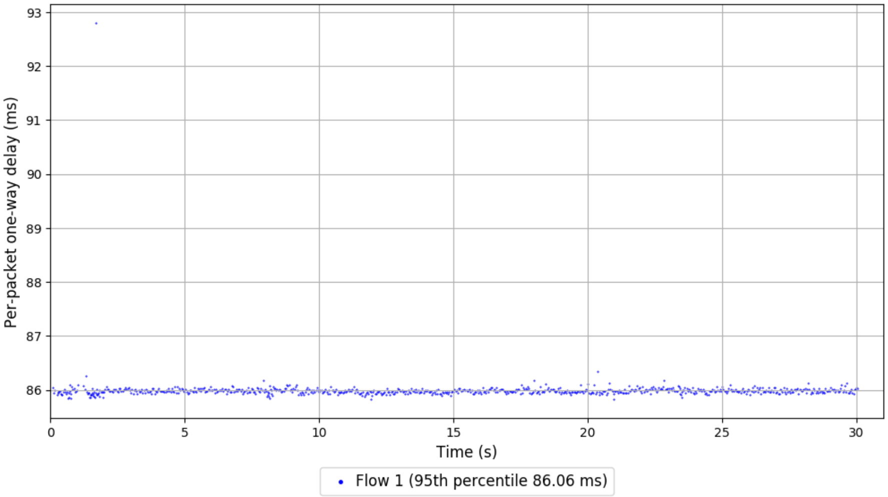




```
Run 8: Statistics of SCReAM

Start at: 2018-05-24 02:03:28
End at: 2018-05-24 02:03:58
Local clock offset: 2.757 ms
Remote clock offset: 1.988 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.058 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.058 ms
Loss rate: 0.00%
```

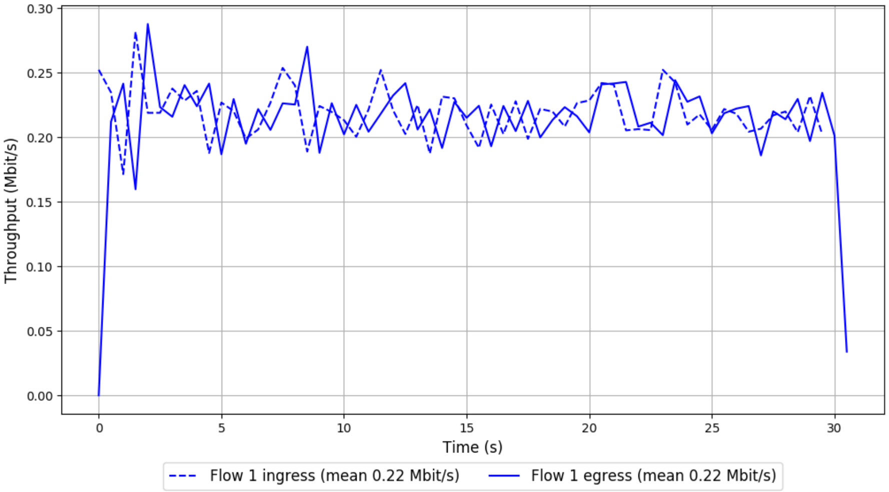
Run 8: Report of SCReAM — Data Link

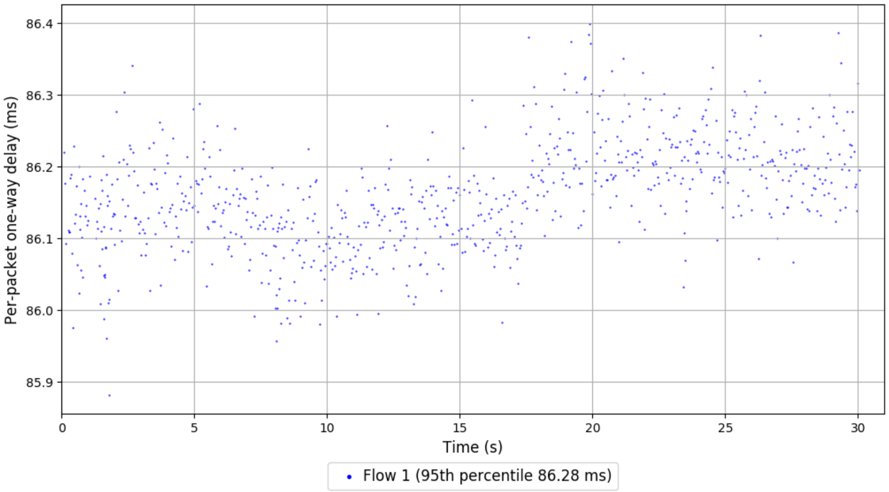




```
Run 9: Statistics of SCReAM

Start at: 2018-05-24 02:24:22
End at: 2018-05-24 02:24:52
Local clock offset: 1.742 ms
Remote clock offset: 1.257 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.285 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.285 ms
Loss rate: 0.00%
```

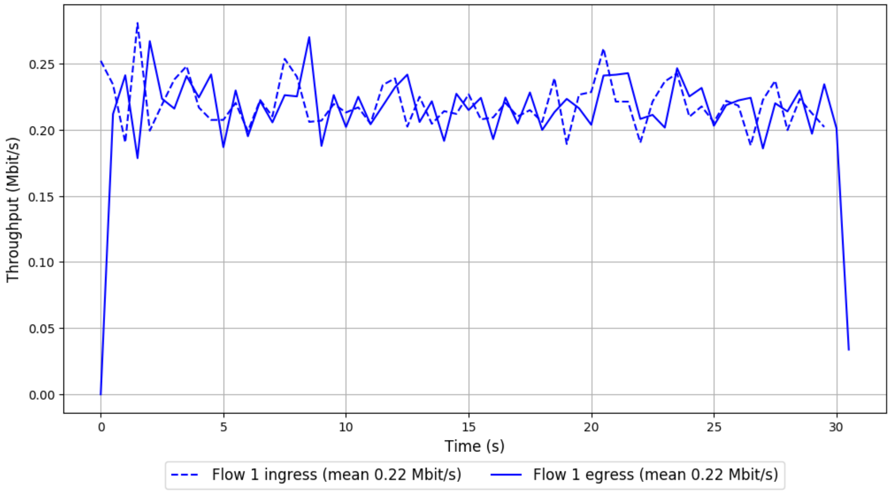
Run 9: Report of SCReAM — Data Link

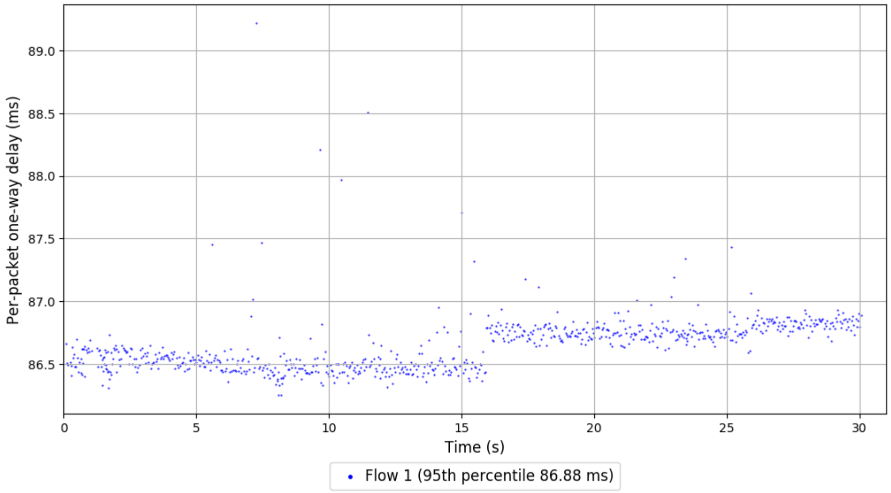




```
Run 10: Statistics of SCReAM

Start at: 2018-05-24 02:45:34
End at: 2018-05-24 02:46:04
Local clock offset: 0.891 ms
Remote clock offset: 0.654 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.879 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.879 ms
Loss rate: 0.00%
```

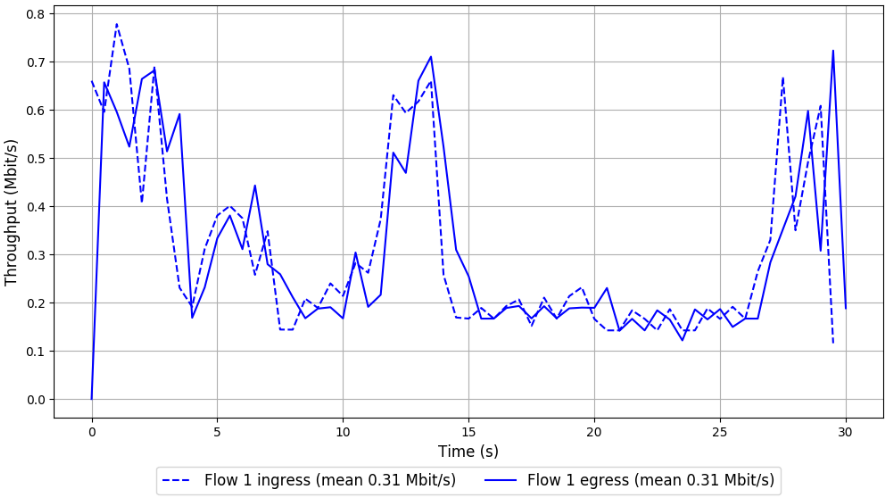
Run 10: Report of SCReAM — Data Link

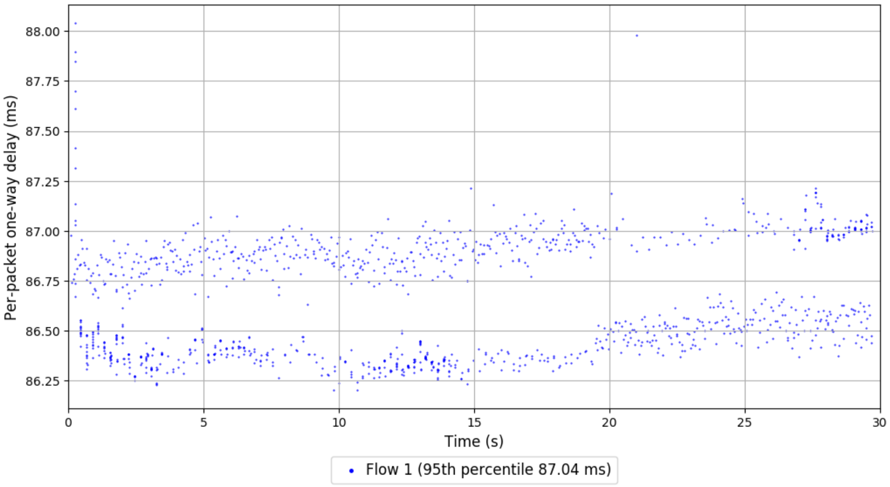




```
Run 1: Statistics of Sprout

Start at: 2018-05-23 23:45:00
End at: 2018-05-23 23:45:30
Local clock offset: 17.065 ms
Remote clock offset: 12.949 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 87.036 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 87.036 ms
Loss rate: 0.00%
```

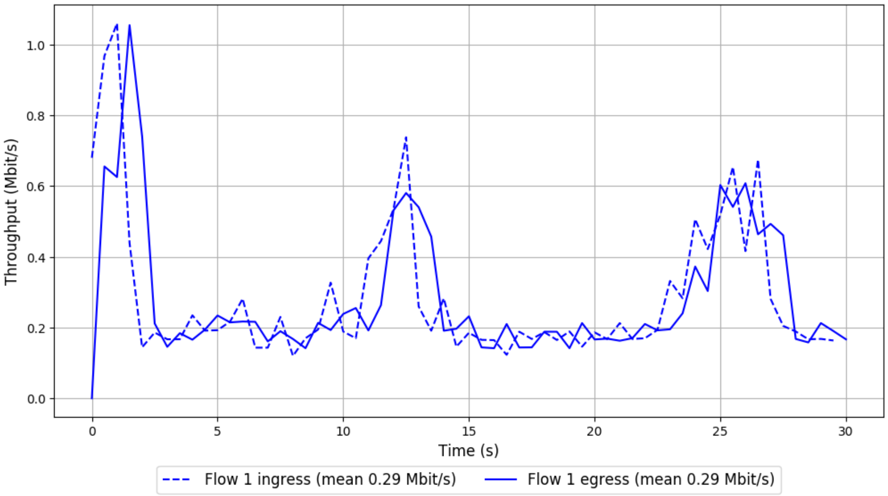
Run 1: Report of Sprout — Data Link

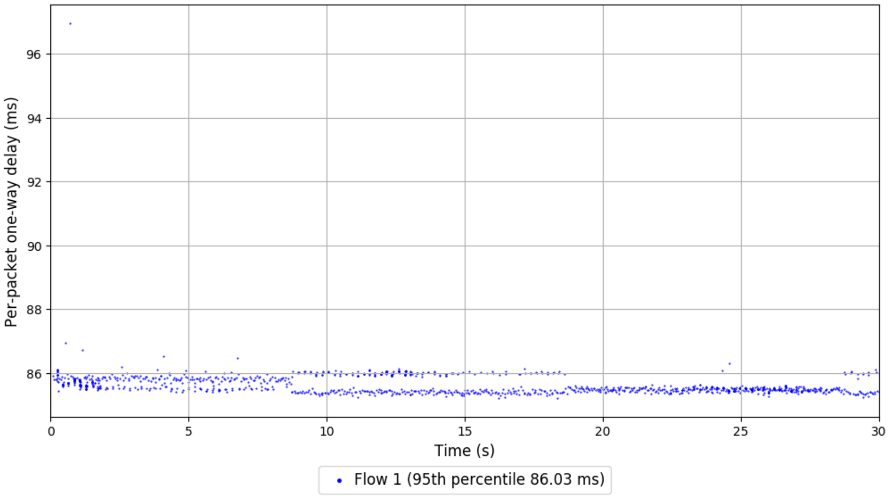




```
Run 2: Statistics of Sprout

Start at: 2018-05-24 00:05:51
End at: 2018-05-24 00:06:21
Local clock offset: 25.609 ms
Remote clock offset: 20.157 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 86.030 ms
Loss rate: 0.00%
```

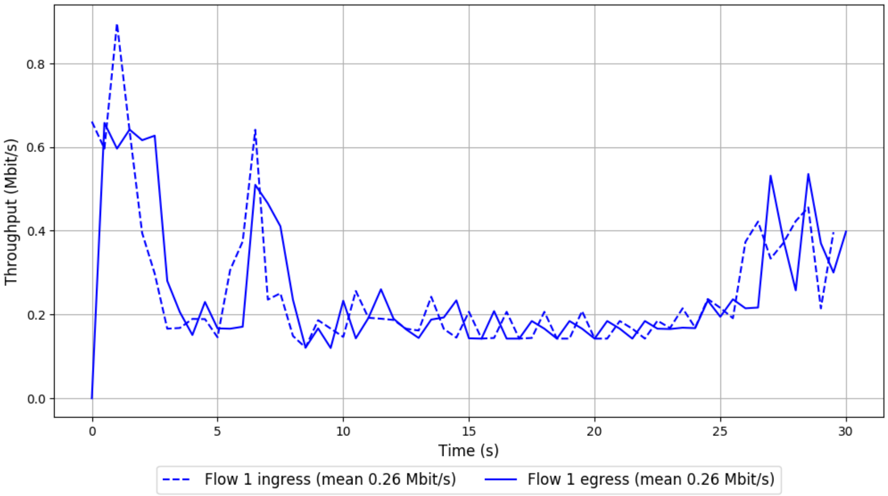
Run 2: Report of Sprout — Data Link

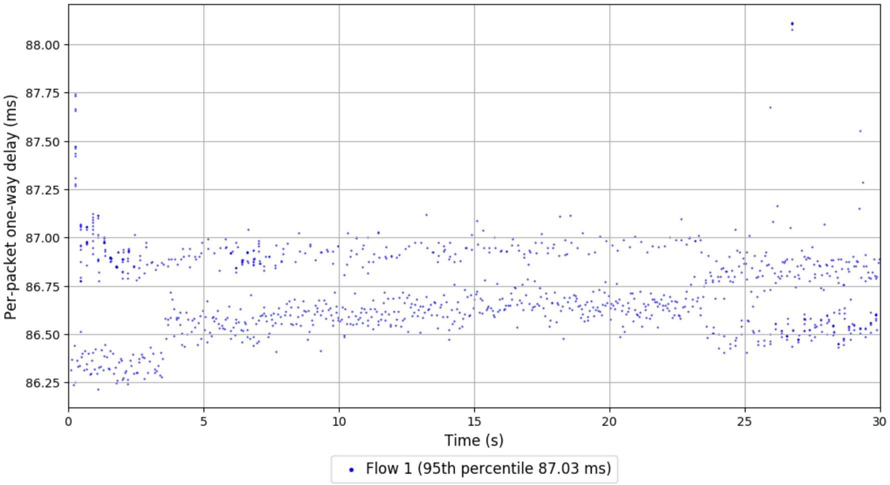




```
Run 3: Statistics of Sprout

Start at: 2018-05-24 00:27:06
End at: 2018-05-24 00:27:36
Local clock offset: 31.753 ms
Remote clock offset: 25.194 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 87.025 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 87.025 ms
Loss rate: 0.00%
```

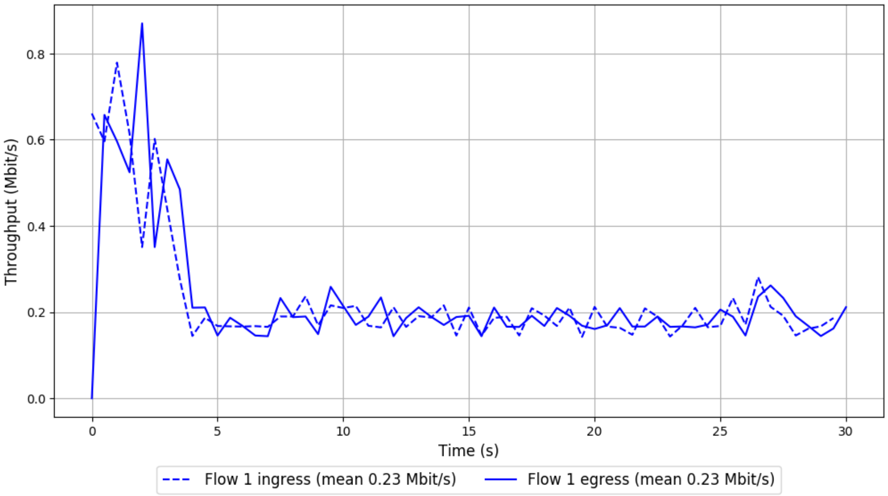
Run 3: Report of Sprout — Data Link

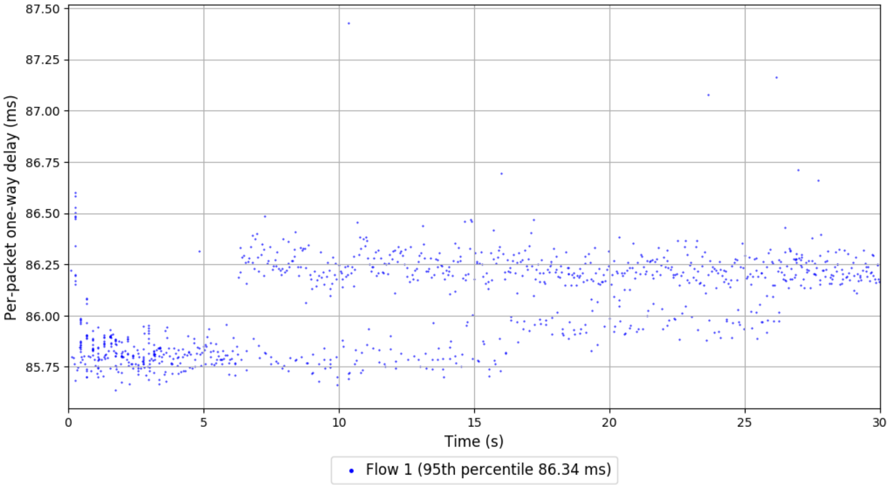




```
Run 4: Statistics of Sprout

Start at: 2018-05-24 00:48:13
End at: 2018-05-24 00:48:43
Local clock offset: 19.518 ms
Remote clock offset: 15.289 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.336 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 86.336 ms
Loss rate: 0.00%
```

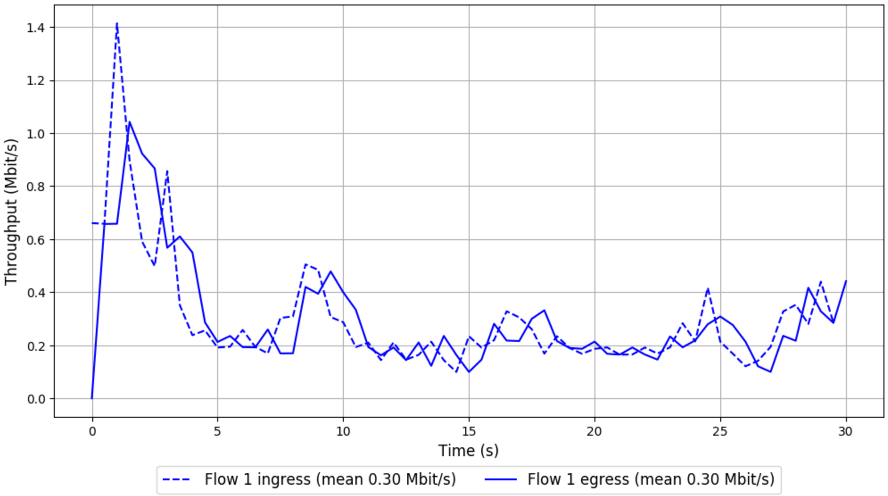
Run 4: Report of Sprout — Data Link

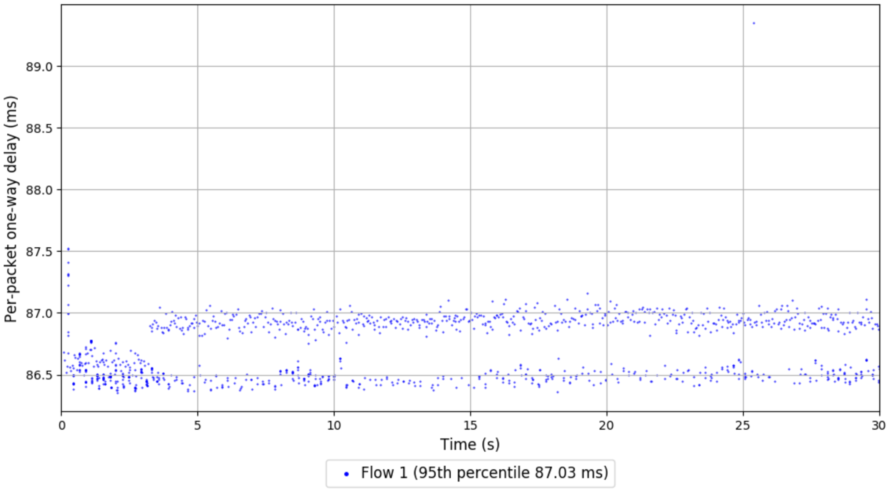




```
Run 5: Statistics of Sprout

Start at: 2018-05-24 01:09:26
End at: 2018-05-24 01:09:56
Local clock offset: 21.054 ms
Remote clock offset: 16.59 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 87.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 87.030 ms
Loss rate: 0.00%
```

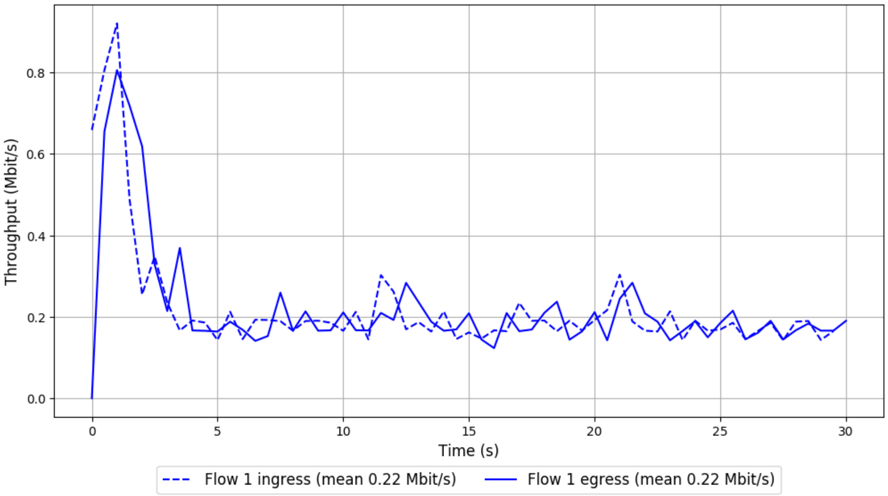
Run 5: Report of Sprout — Data Link

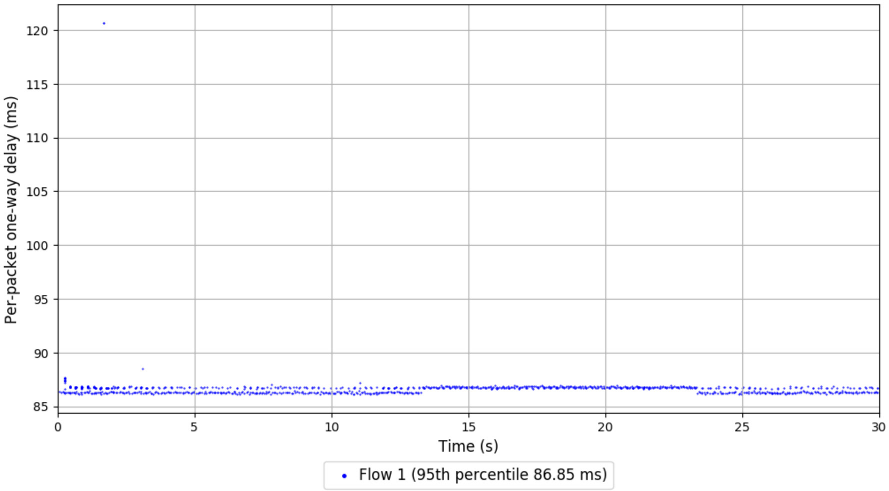




```
Run 6: Statistics of Sprout

Start at: 2018-05-24 01:30:36
End at: 2018-05-24 01:31:06
Local clock offset: 8.024 ms
Remote clock offset: 6.449 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.850 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.850 ms
Loss rate: 0.00%
```

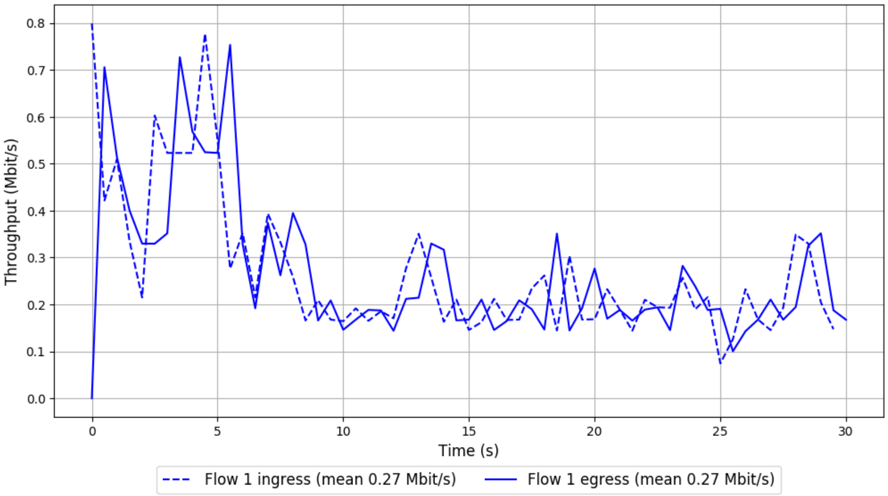
Run 6: Report of Sprout — Data Link

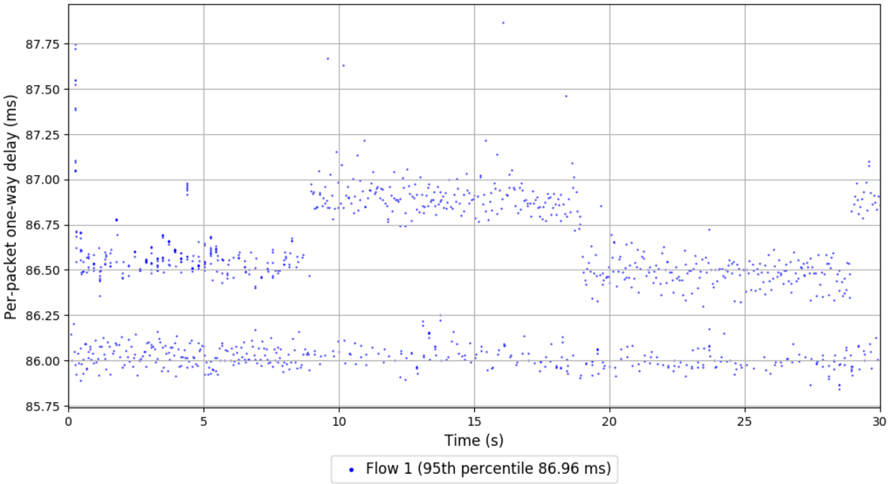




```
Run 7: Statistics of Sprout

Start at: 2018-05-24 01:51:41
End at: 2018-05-24 01:52:11
Local clock offset: 5.708 ms
Remote clock offset: 4.677 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.959 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 86.959 ms
Loss rate: 0.00%
```

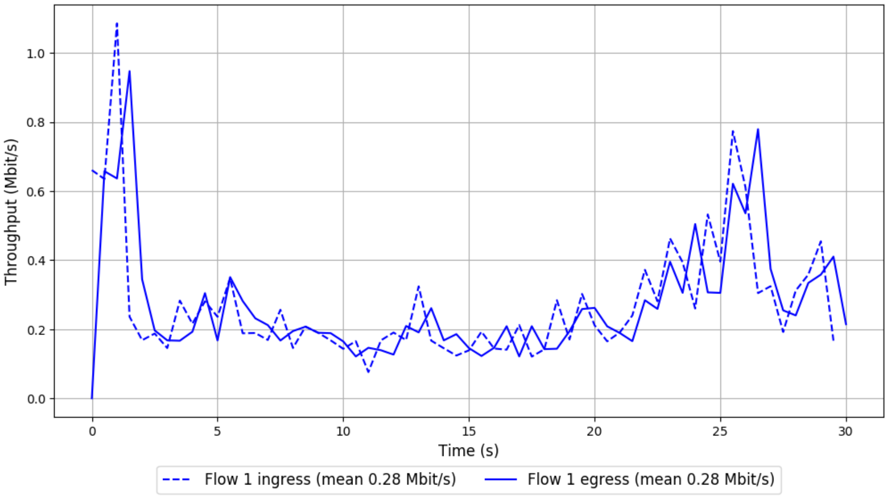
Run 7: Report of Sprout — Data Link

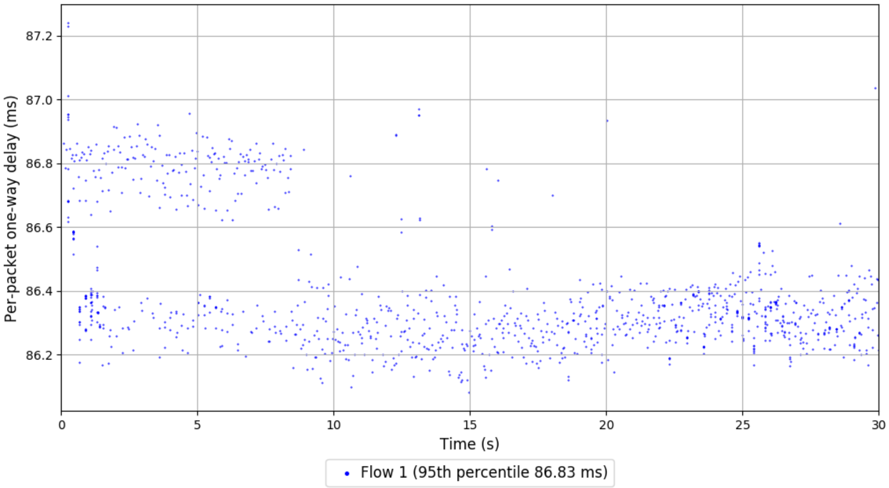




```
Run 8: Statistics of Sprout

Start at: 2018-05-24 02:12:41
End at: 2018-05-24 02:13:11
Local clock offset: 2.045 ms
Remote clock offset: 1.742 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.833 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.833 ms
Loss rate: 0.00%
```

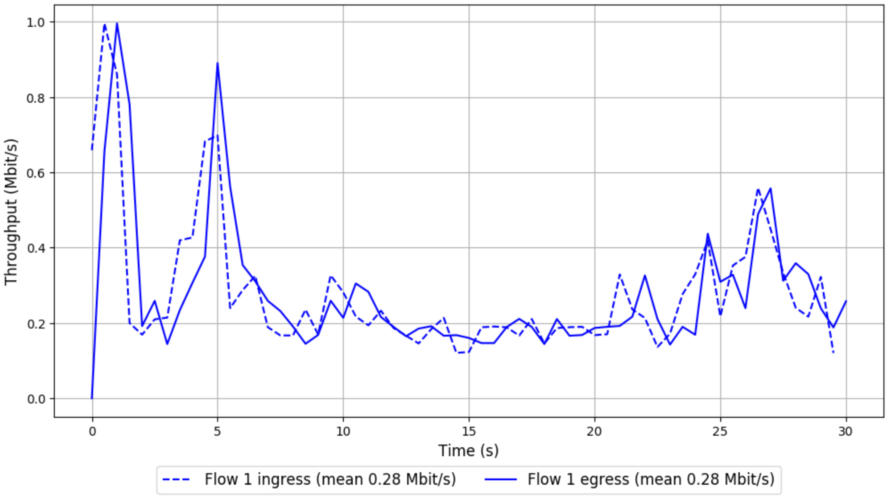
Run 8: Report of Sprout — Data Link

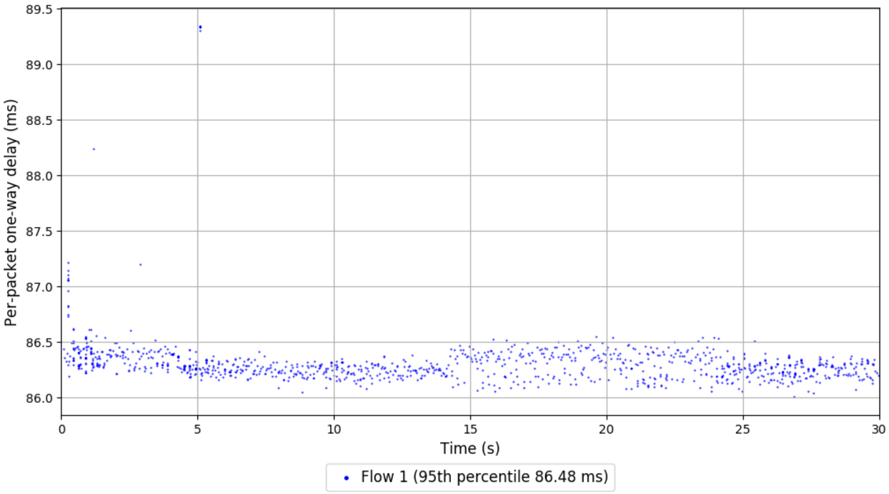




```
Run 9: Statistics of Sprout

Start at: 2018-05-24 02:33:35
End at: 2018-05-24 02:34:05
Local clock offset: 0.907 ms
Remote clock offset: 0.671 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.477 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 86.477 ms
Loss rate: 0.00%
```

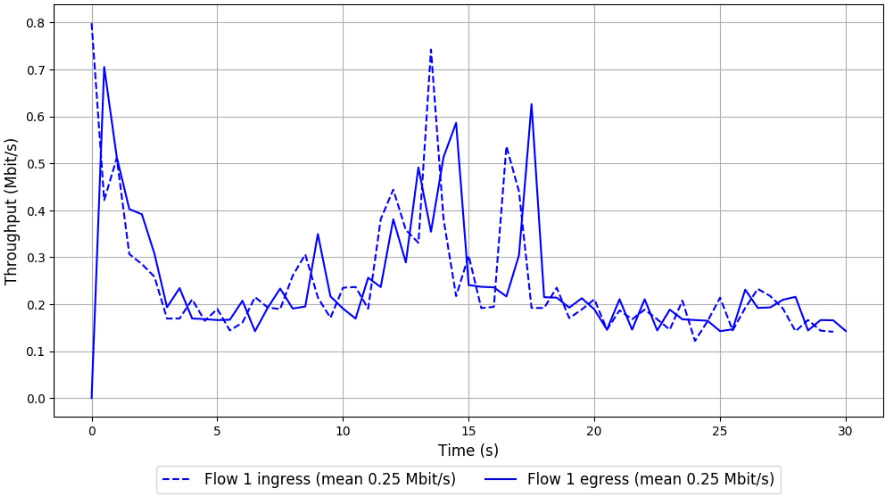
Run 9: Report of Sprout — Data Link

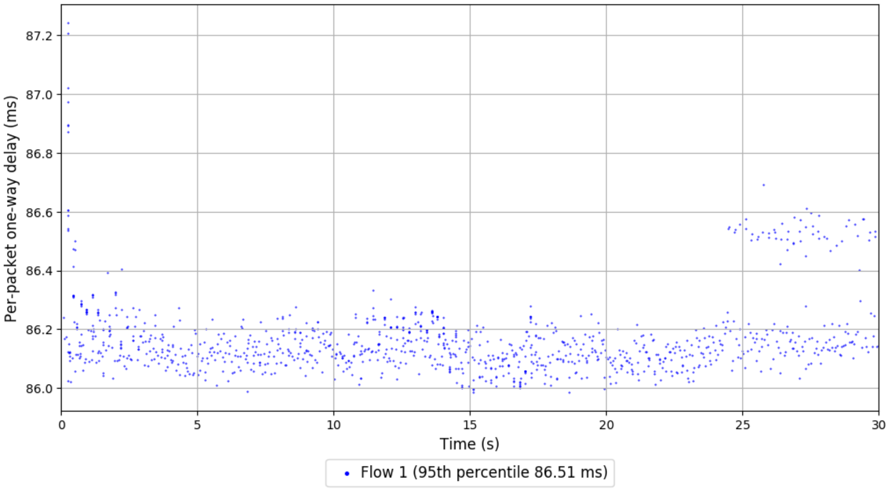




```
Run 10: Statistics of Sprout

Start at: 2018-05-24 02:54:35
End at: 2018-05-24 02:55:05
Local clock offset: 1.227 ms
Remote clock offset: 0.754 ms

# Below is generated by plot.py at 2018-05-24 04:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.507 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 86.507 ms
Loss rate: 0.00%
```

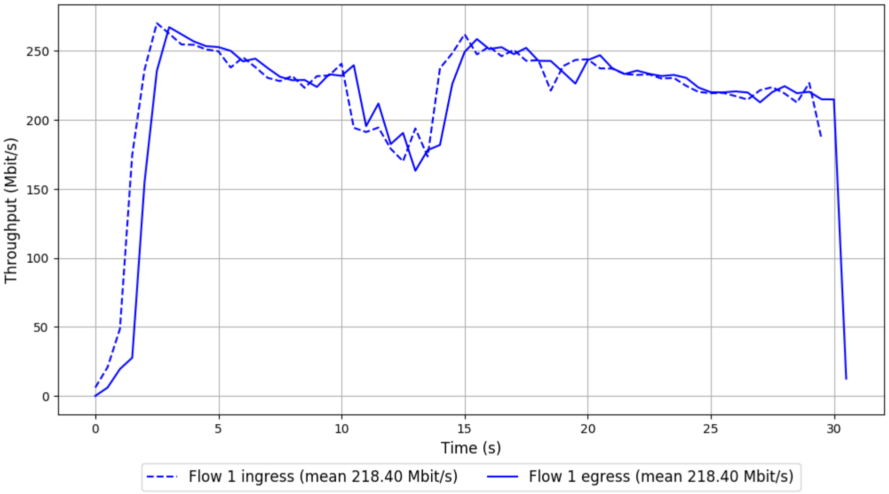
Run 10: Report of Sprout — Data Link

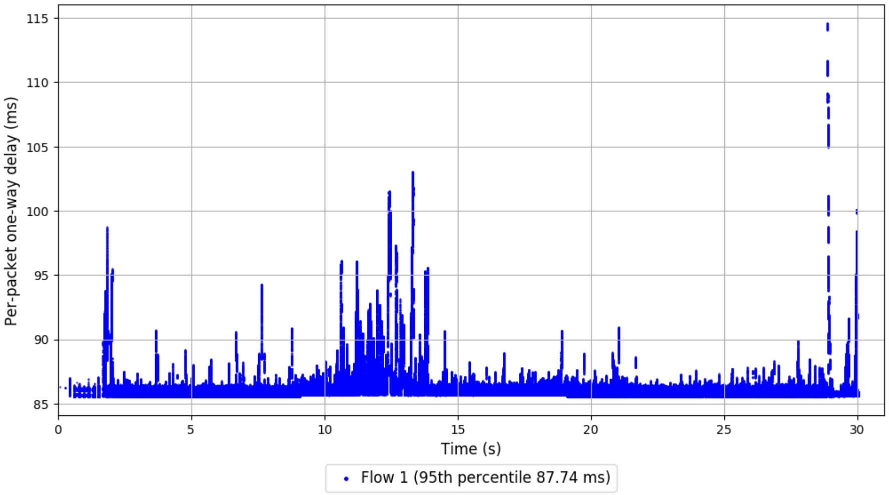




```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-23 23:48:50
End at: 2018-05-23 23:49:20
Local clock offset: 15.385 ms
Remote clock offset: 12.081 ms

# Below is generated by plot.py at 2018-05-24 04:20:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.40 Mbit/s
95th percentile per-packet one-way delay: 87.737 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.40 Mbit/s
95th percentile per-packet one-way delay: 87.737 ms
Loss rate: 0.00%
```

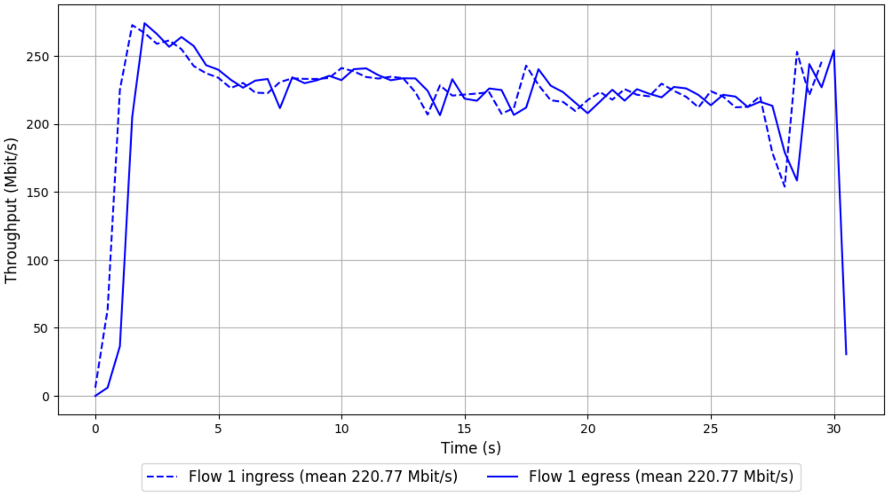
Run 1: Report of TaoVA-100x — Data Link

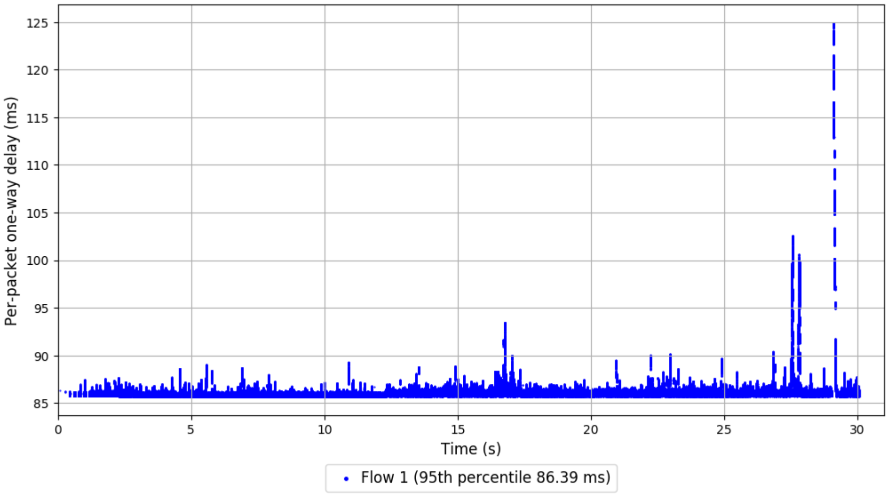




```
Run 2: Statistics of TaoVA-100x

Start at: 2018-05-24 00:09:47
End at: 2018-05-24 00:10:17
Local clock offset: 22.075 ms
Remote clock offset: 17.508 ms

# Below is generated by plot.py at 2018-05-24 04:21:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.77 Mbit/s
95th percentile per-packet one-way delay: 86.385 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.77 Mbit/s
95th percentile per-packet one-way delay: 86.385 ms
Loss rate: 0.00%
```

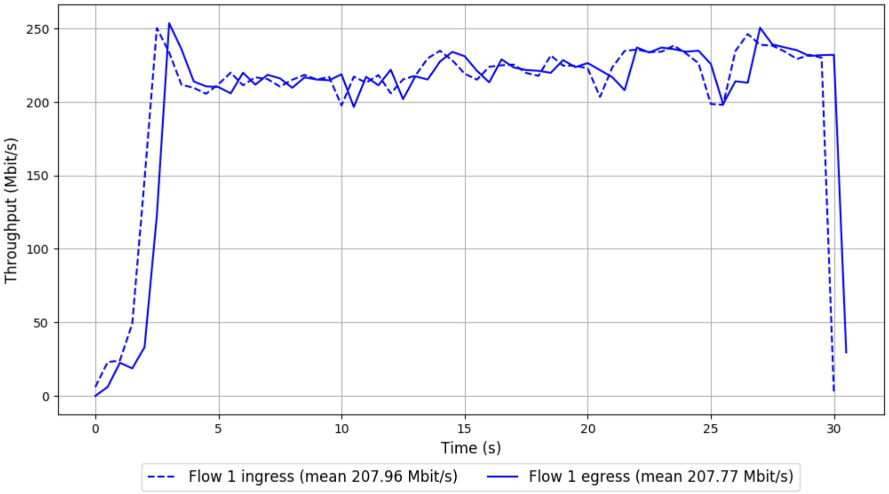
Run 2: Report of TaoVA-100x — Data Link

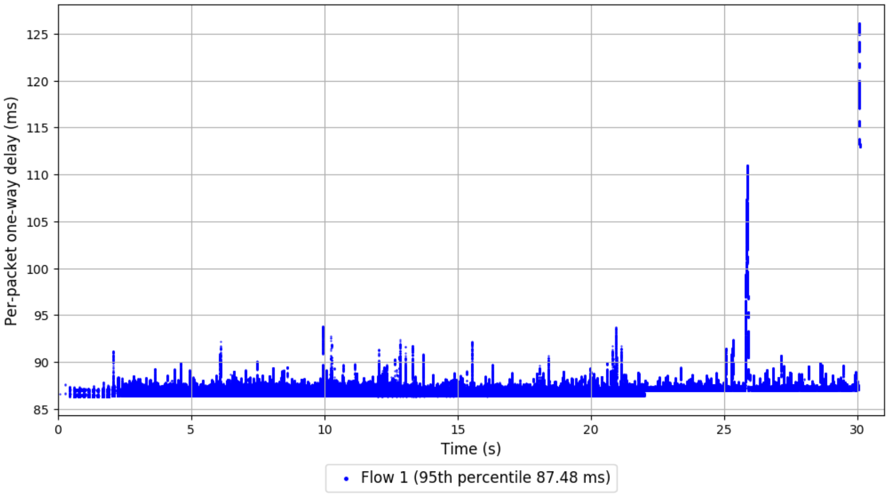




```
Run 3: Statistics of TaoVA-100x

Start at: 2018-05-24 00:30:58
End at: 2018-05-24 00:31:28
Local clock offset: 35.777 ms
Remote clock offset: 28.575 ms

# Below is generated by plot.py at 2018-05-24 04:21:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.77 Mbit/s
95th percentile per-packet one-way delay: 87.477 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 207.77 Mbit/s
95th percentile per-packet one-way delay: 87.477 ms
Loss rate: 0.09%
```

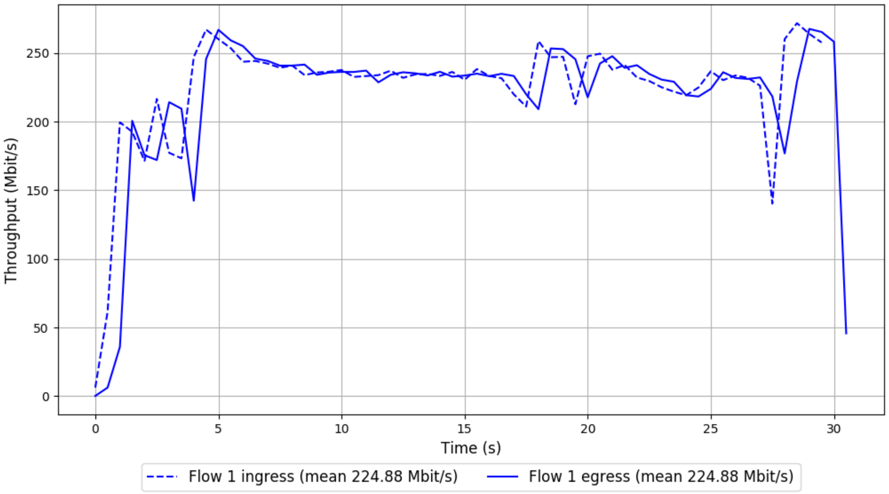
Run 3: Report of TaoVA-100x — Data Link

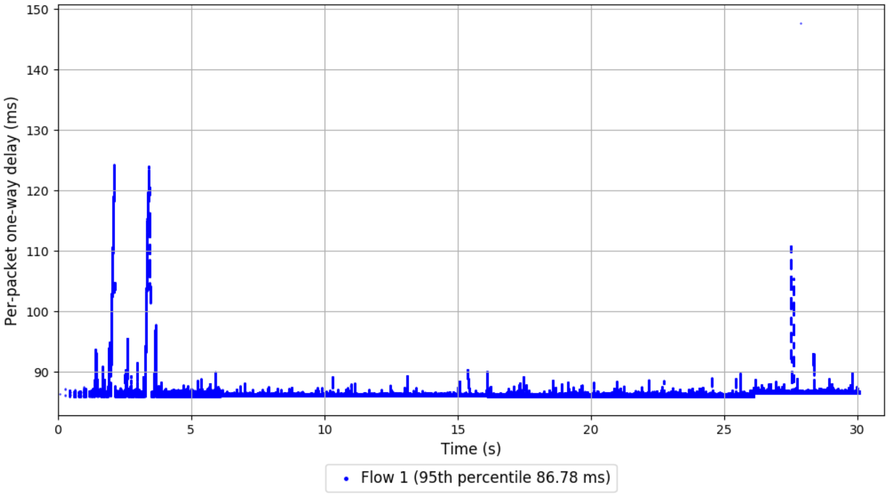




```
Run 4: Statistics of TaoVA-100x

Start at: 2018-05-24 00:52:13
End at: 2018-05-24 00:52:43
Local clock offset: 17.066 ms
Remote clock offset: 13.52 ms

# Below is generated by plot.py at 2018-05-24 04:22:46
# Datalink statistics
-- Total of 1 flow:
Average throughput: 224.88 Mbit/s
95th percentile per-packet one-way delay: 86.782 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.88 Mbit/s
95th percentile per-packet one-way delay: 86.782 ms
Loss rate: 0.00%
```

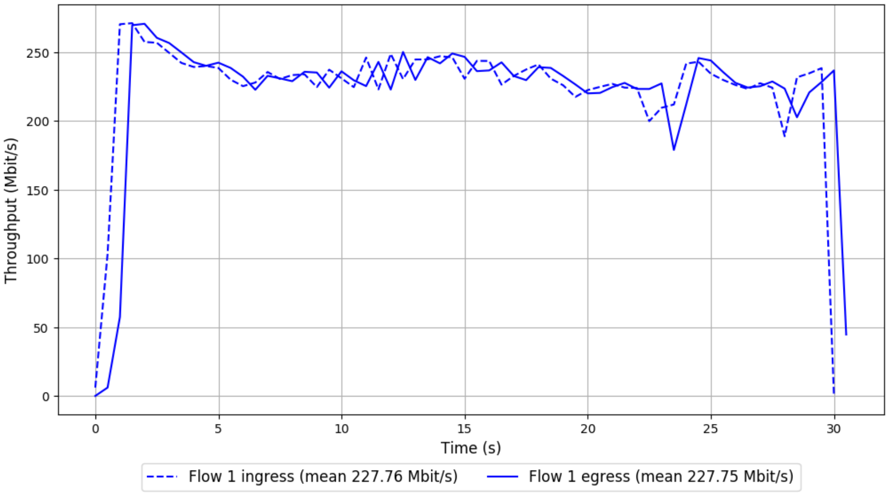
Run 4: Report of TaoVA-100x — Data Link

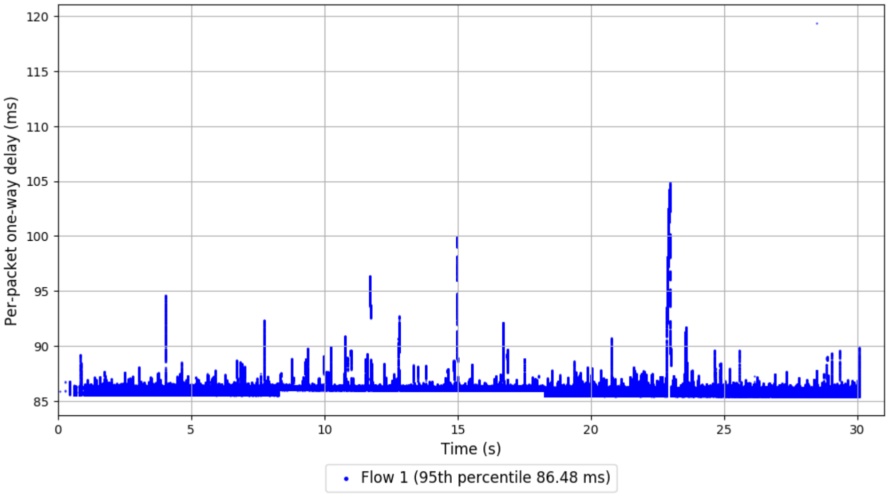




```
Run 5: Statistics of TaoVA-100x

Start at: 2018-05-24 01:13:21
End at: 2018-05-24 01:13:51
Local clock offset: 19.058 ms
Remote clock offset: 15.216 ms

# Below is generated by plot.py at 2018-05-24 04:23:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 227.75 Mbit/s
95th percentile per-packet one-way delay: 86.479 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 227.75 Mbit/s
95th percentile per-packet one-way delay: 86.479 ms
Loss rate: 0.00%
```

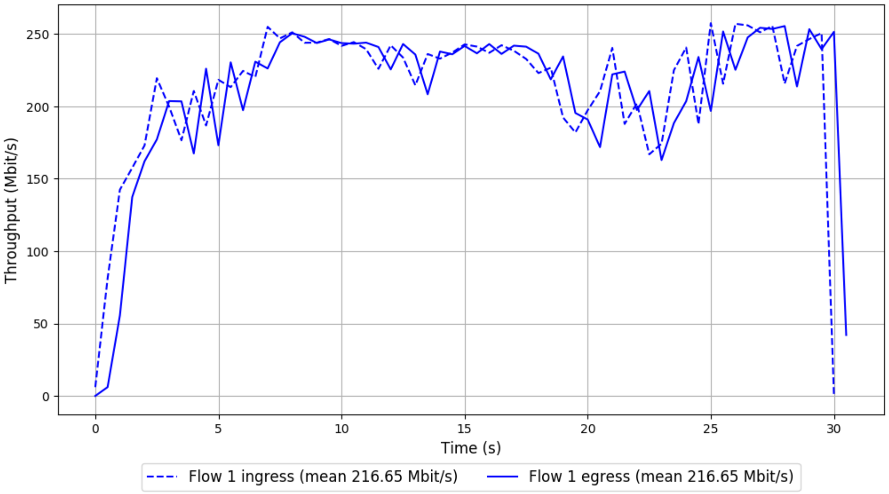
Run 5: Report of TaoVA-100x — Data Link

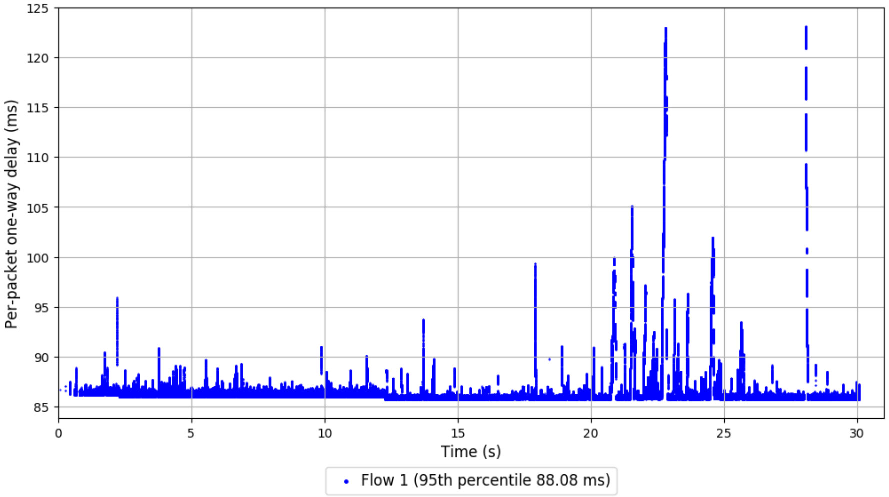




```
Run 6: Statistics of TaoVA-100x

Start at: 2018-05-24 01:34:27
End at: 2018-05-24 01:34:57
Local clock offset: 8.521 ms
Remote clock offset: 6.662 ms

# Below is generated by plot.py at 2018-05-24 04:24:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.65 Mbit/s
95th percentile per-packet one-way delay: 88.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.65 Mbit/s
95th percentile per-packet one-way delay: 88.076 ms
Loss rate: 0.00%
```

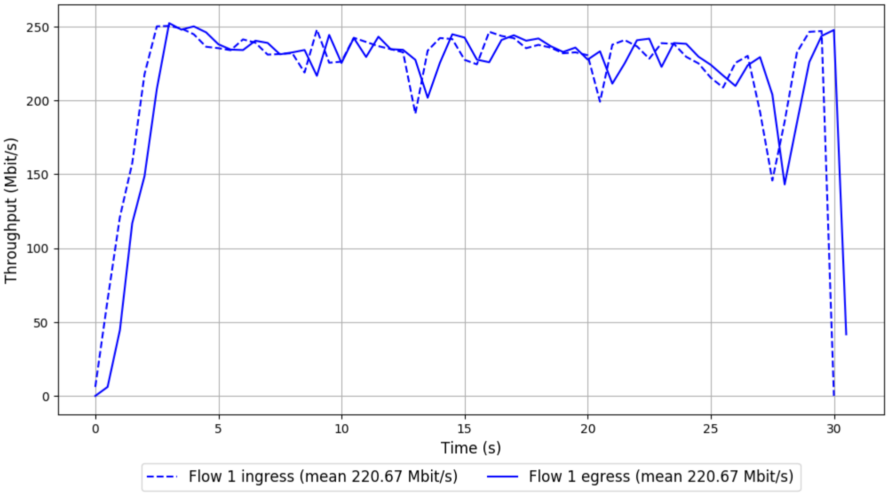
Run 6: Report of TaoVA-100x — Data Link

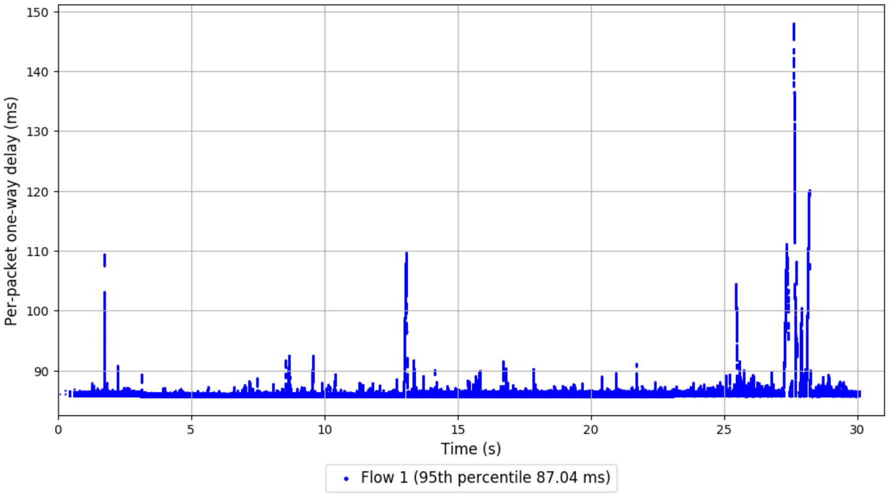




```
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-24 01:55:37
End at: 2018-05-24 01:56:07
Local clock offset: 4.136 ms
Remote clock offset: 3.244 ms

# Below is generated by plot.py at 2018-05-24 04:24:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.67 Mbit/s
95th percentile per-packet one-way delay: 87.038 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 220.67 Mbit/s
95th percentile per-packet one-way delay: 87.038 ms
Loss rate: 0.00%
```

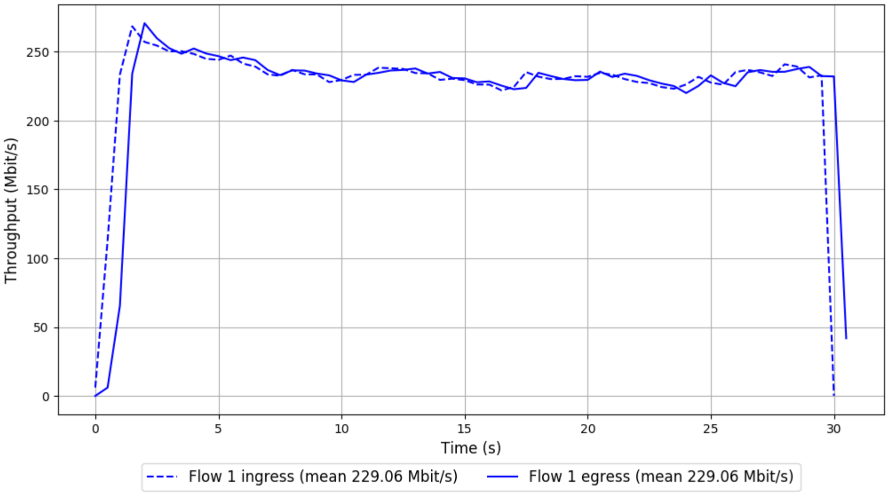
Run 7: Report of TaoVA-100x — Data Link

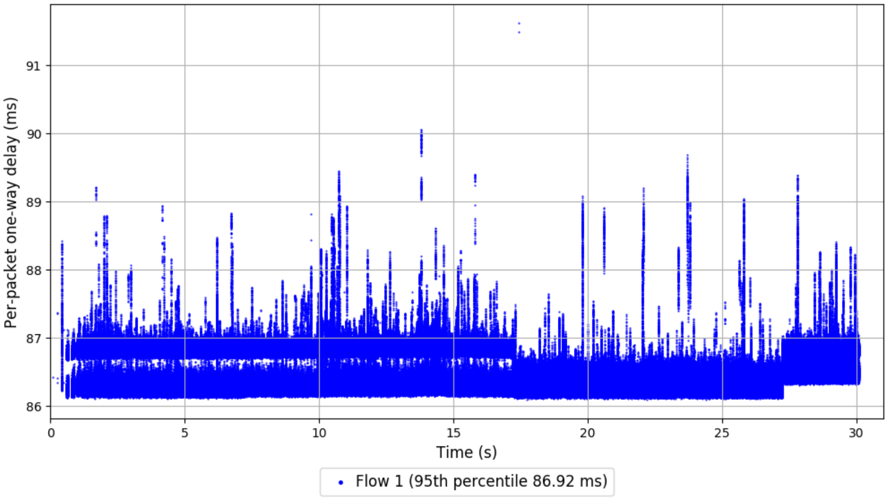




```
Run 8: Statistics of TaoVA-100x

Start at: 2018-05-24 02:16:32
End at: 2018-05-24 02:17:02
Local clock offset: 1.976 ms
Remote clock offset: 1.792 ms

# Below is generated by plot.py at 2018-05-24 04:25:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.06 Mbit/s
95th percentile per-packet one-way delay: 86.922 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 229.06 Mbit/s
95th percentile per-packet one-way delay: 86.922 ms
Loss rate: 0.00%
```

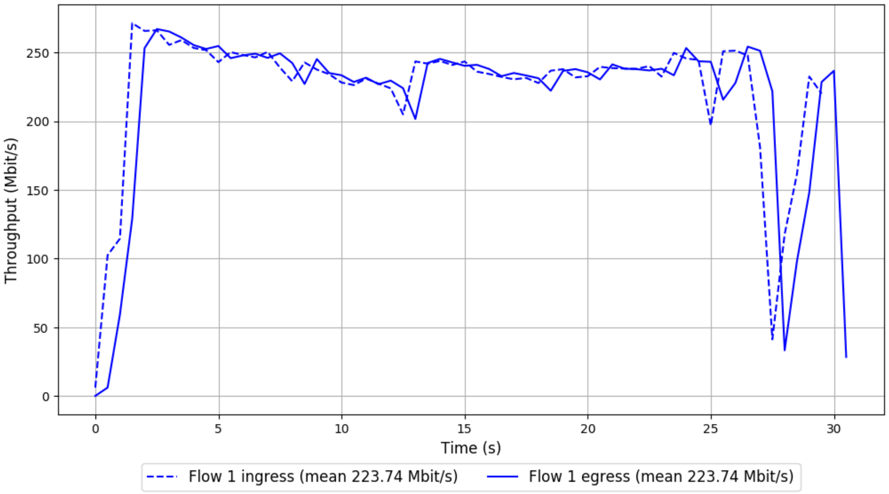
Run 8: Report of TaoVA-100x — Data Link

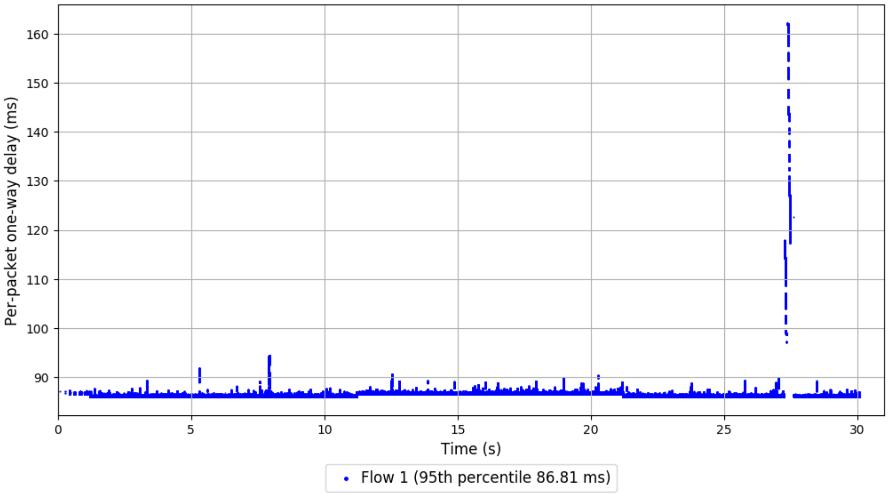




```
Run 9: Statistics of TaoVA-100x

Start at: 2018-05-24 02:37:28
End at: 2018-05-24 02:37:58
Local clock offset: 0.751 ms
Remote clock offset: 0.578 ms

# Below is generated by plot.py at 2018-05-24 04:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.74 Mbit/s
95th percentile per-packet one-way delay: 86.807 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.74 Mbit/s
95th percentile per-packet one-way delay: 86.807 ms
Loss rate: 0.00%
```

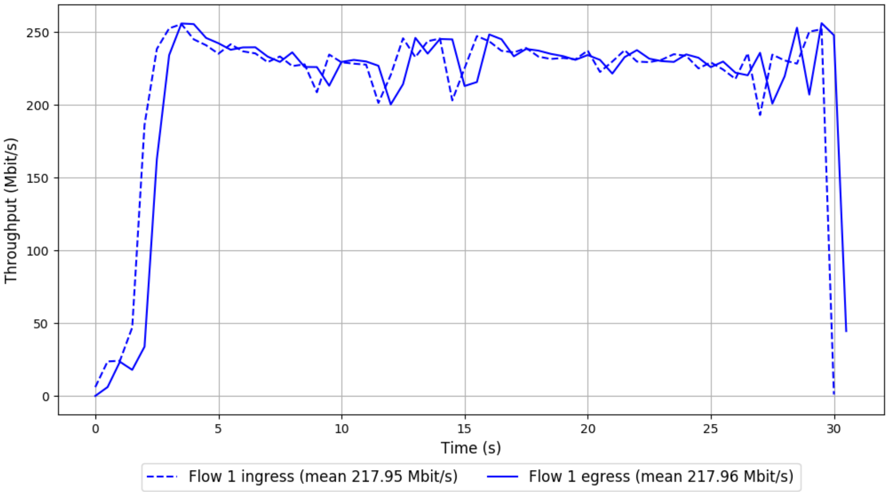
Run 9: Report of TaoVA-100x — Data Link

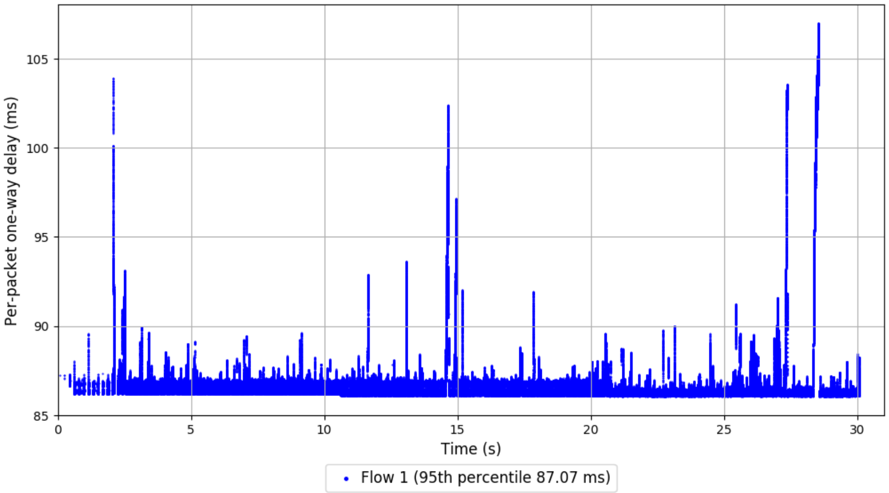




```
Run 10: Statistics of TaoVA-100x

Start at: 2018-05-24 02:58:29
End at: 2018-05-24 02:58:59
Local clock offset: 0.607 ms
Remote clock offset: 0.504 ms

# Below is generated by plot.py at 2018-05-24 04:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 217.96 Mbit/s
95th percentile per-packet one-way delay: 87.069 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 217.96 Mbit/s
95th percentile per-packet one-way delay: 87.069 ms
Loss rate: 0.00%
```

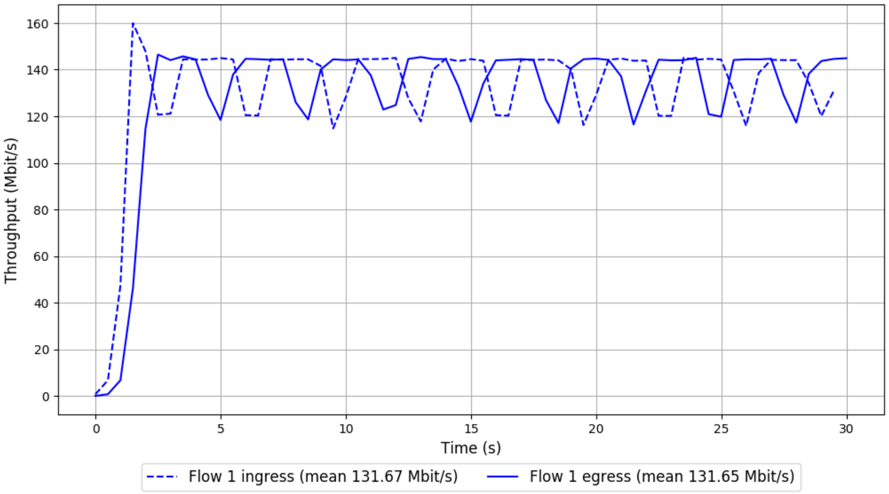
Run 10: Report of TaoVA-100x — Data Link

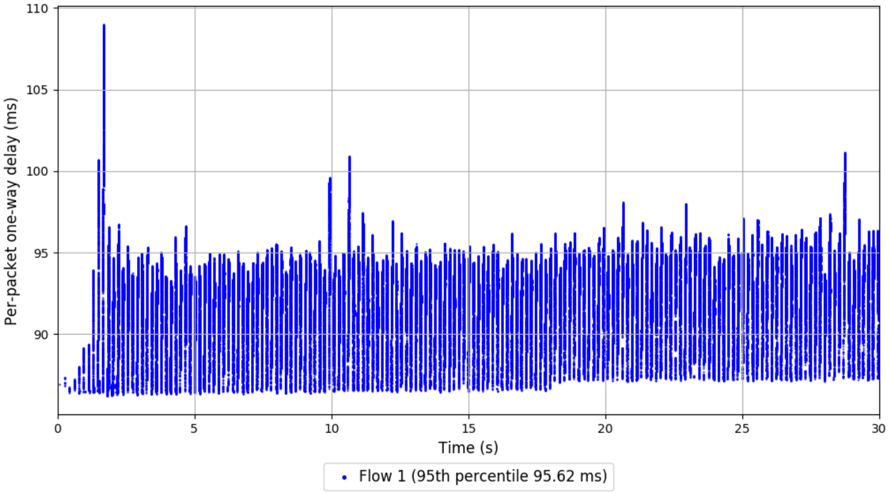




```
Run 1: Statistics of TCP Vegas

Start at: 2018-05-23 23:34:52
End at: 2018-05-23 23:35:22
Local clock offset: 6.569 ms
Remote clock offset: 5.113 ms

# Below is generated by plot.py at 2018-05-24 04:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.65 Mbit/s
95th percentile per-packet one-way delay: 95.620 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.65 Mbit/s
95th percentile per-packet one-way delay: 95.620 ms
Loss rate: 0.00%
```

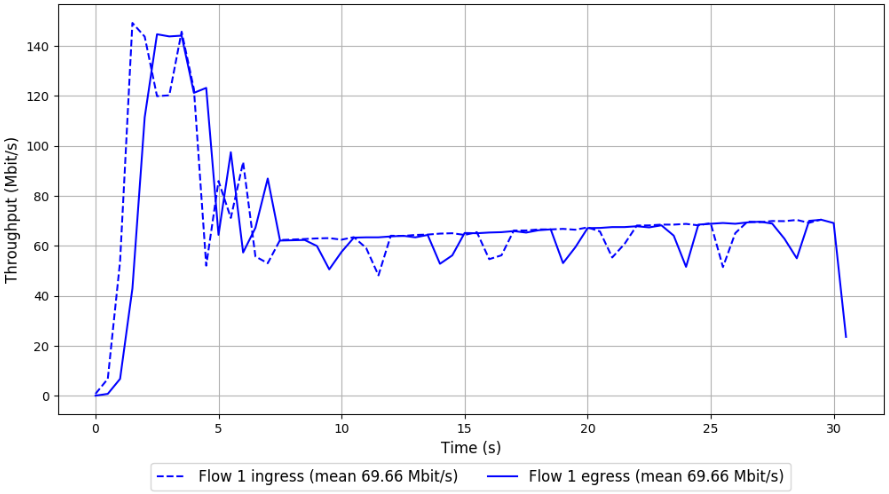
Run 1: Report of TCP Vegas — Data Link

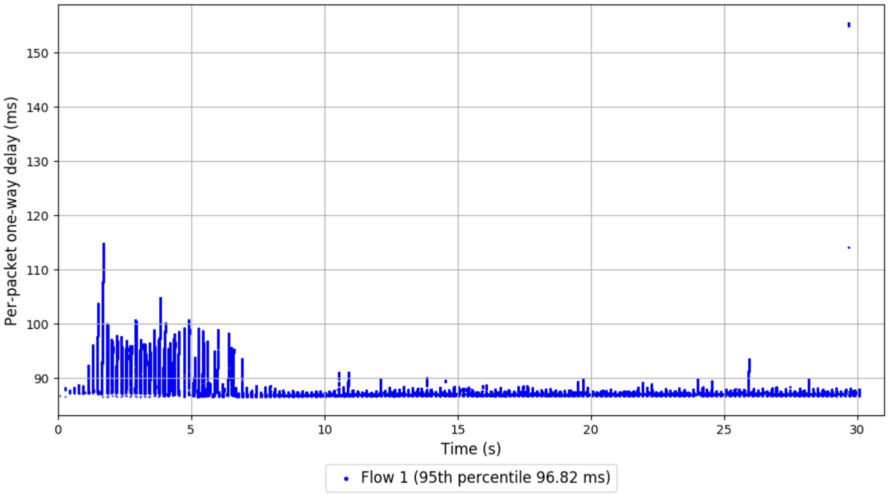




```
Run 2: Statistics of TCP Vegas

Start at: 2018-05-23 23:55:26
End at: 2018-05-23 23:55:56
Local clock offset: 17.375 ms
Remote clock offset: 13.823 ms

# Below is generated by plot.py at 2018-05-24 04:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.66 Mbit/s
95th percentile per-packet one-way delay: 96.818 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.66 Mbit/s
95th percentile per-packet one-way delay: 96.818 ms
Loss rate: 0.00%
```

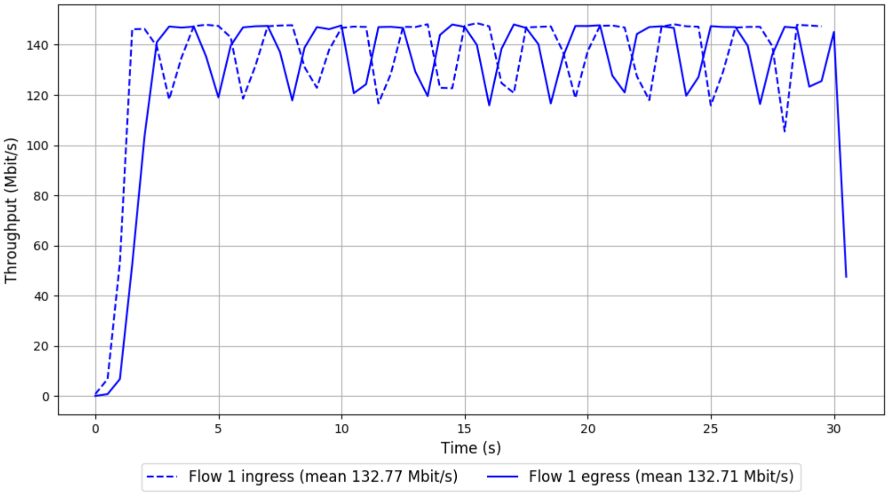
Run 2: Report of TCP Vegas — Data Link

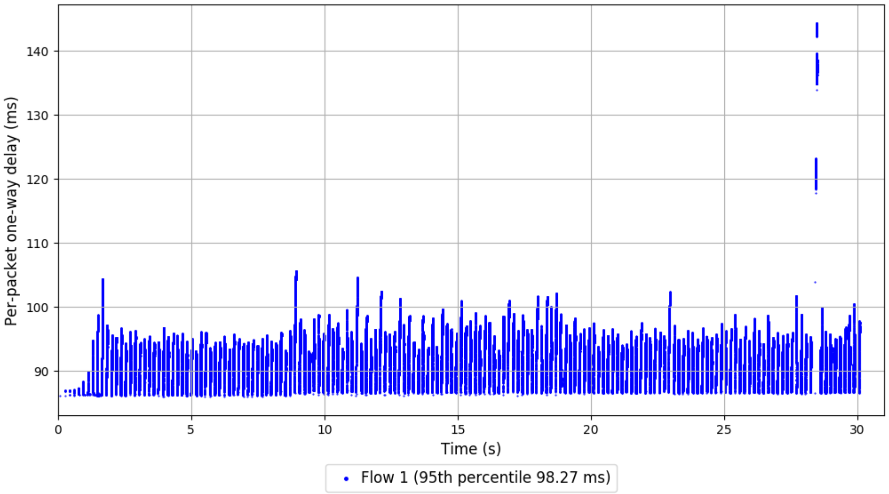




```
Run 3: Statistics of TCP Vegas

Start at: 2018-05-24 00:16:41
End at: 2018-05-24 00:17:11
Local clock offset: 22.999 ms
Remote clock offset: 18.116 ms

# Below is generated by plot.py at 2018-05-24 04:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.71 Mbit/s
95th percentile per-packet one-way delay: 98.266 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 132.71 Mbit/s
95th percentile per-packet one-way delay: 98.266 ms
Loss rate: 0.02%
```

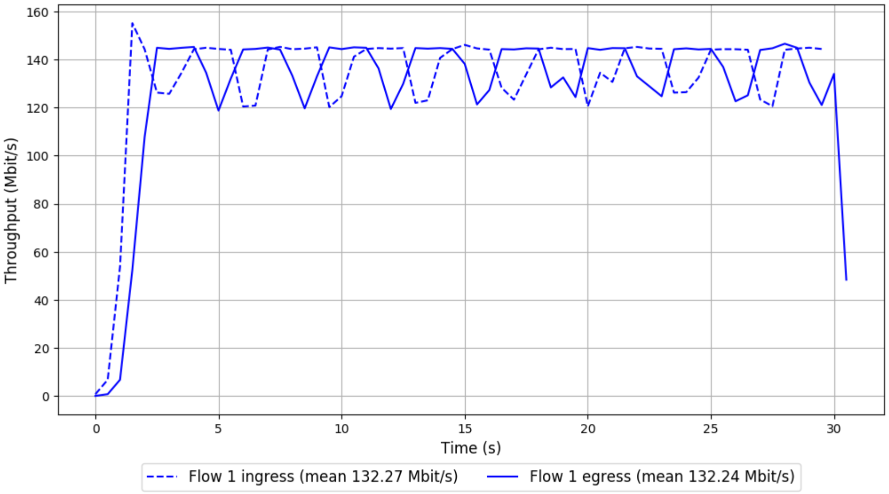
Run 3: Report of TCP Vegas — Data Link

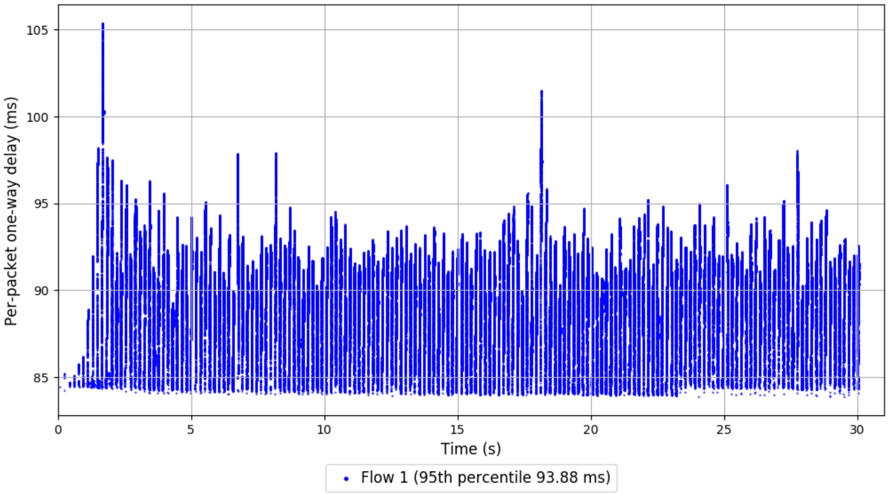




```
Run 4: Statistics of TCP Vegas

Start at: 2018-05-24 00:37:46
End at: 2018-05-24 00:38:16
Local clock offset: 43.591 ms
Remote clock offset: 34.385 ms

# Below is generated by plot.py at 2018-05-24 04:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.24 Mbit/s
95th percentile per-packet one-way delay: 93.879 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.24 Mbit/s
95th percentile per-packet one-way delay: 93.879 ms
Loss rate: 0.00%
```

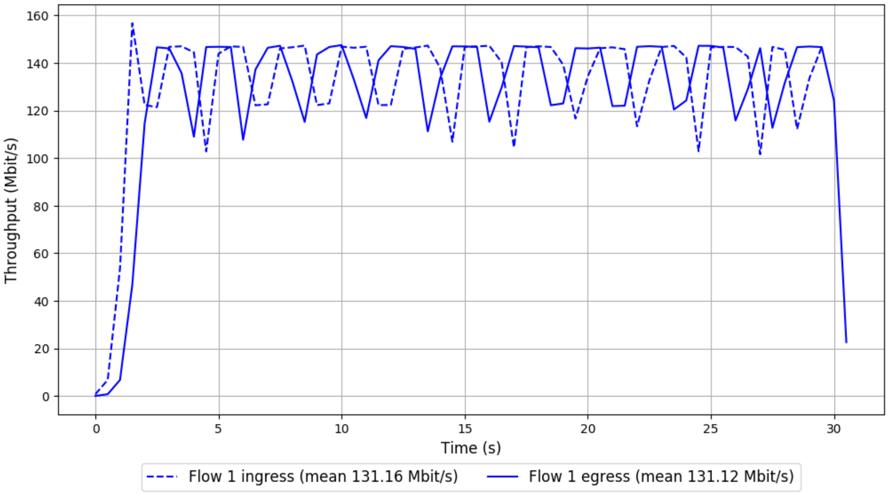
Run 4: Report of TCP Vegas — Data Link

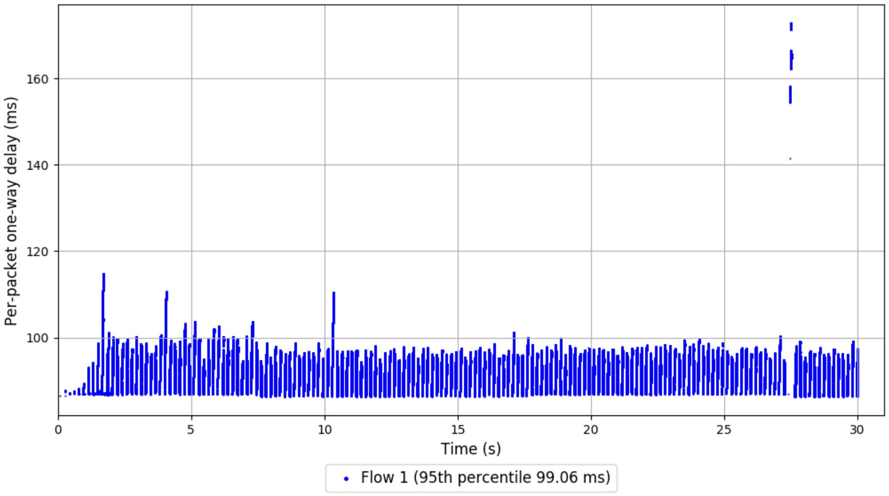




```
Run 5: Statistics of TCP Vegas

Start at: 2018-05-24 00:59:02
End at: 2018-05-24 00:59:32
Local clock offset: 16.976 ms
Remote clock offset: 13.44 ms

# Below is generated by plot.py at 2018-05-24 04:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.12 Mbit/s
95th percentile per-packet one-way delay: 99.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.12 Mbit/s
95th percentile per-packet one-way delay: 99.065 ms
Loss rate: 0.00%
```

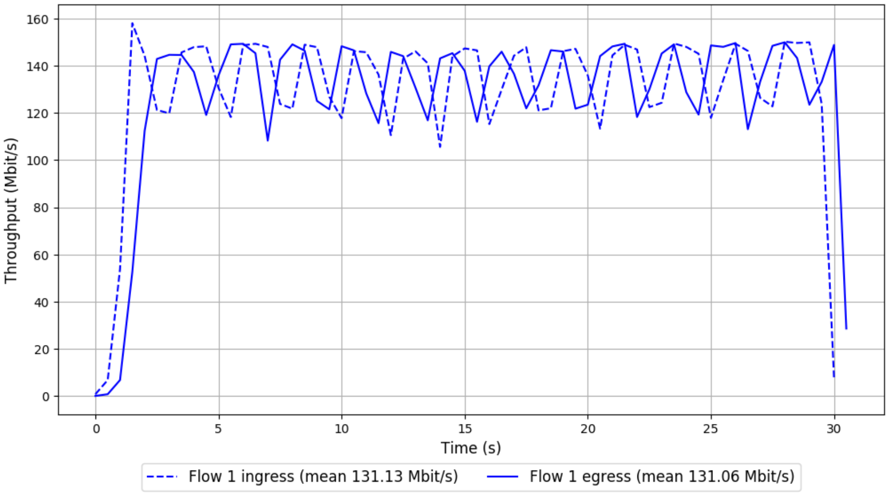
Run 5: Report of TCP Vegas — Data Link

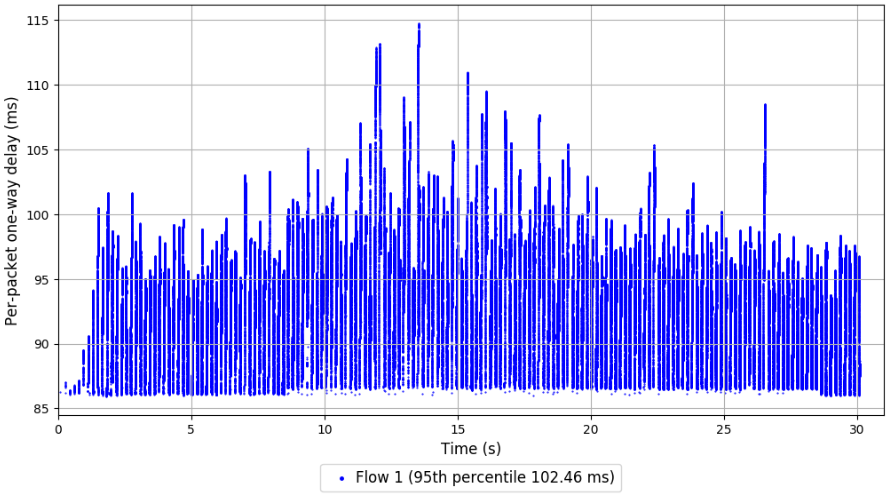




```
Run 6: Statistics of TCP Vegas

Start at: 2018-05-24 01:20:11
End at: 2018-05-24 01:20:41
Local clock offset: 10.777 ms
Remote clock offset: 8.666 ms

# Below is generated by plot.py at 2018-05-24 04:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.06 Mbit/s
95th percentile per-packet one-way delay: 102.457 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 131.06 Mbit/s
95th percentile per-packet one-way delay: 102.457 ms
Loss rate: 0.05%
```

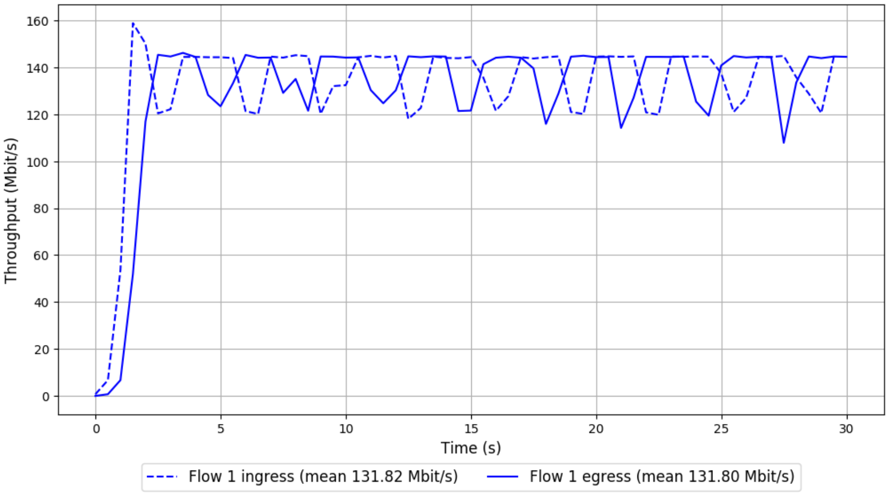
Run 6: Report of TCP Vegas — Data Link

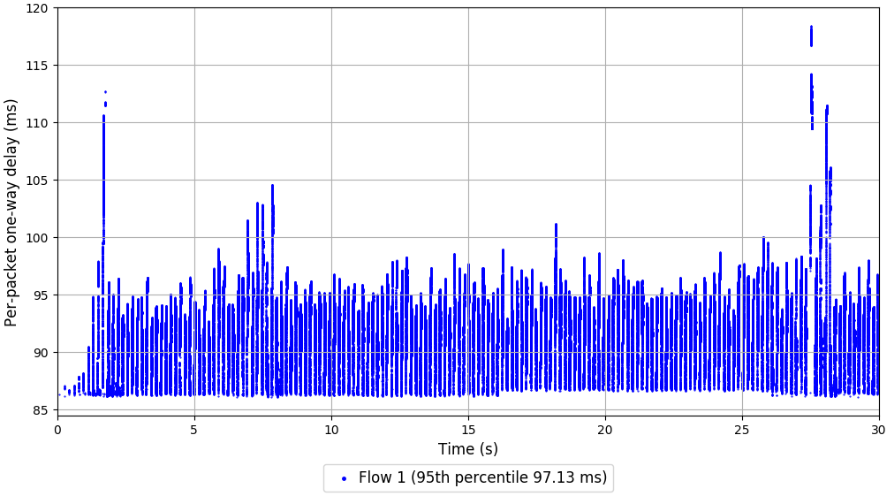




```
Run 7: Statistics of TCP Vegas

Start at: 2018-05-24 01:41:13
End at: 2018-05-24 01:41:44
Local clock offset: 9.54 ms
Remote clock offset: 7.632 ms

# Below is generated by plot.py at 2018-05-24 04:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 131.80 Mbit/s
95th percentile per-packet one-way delay: 97.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 131.80 Mbit/s
95th percentile per-packet one-way delay: 97.126 ms
Loss rate: 0.00%
```

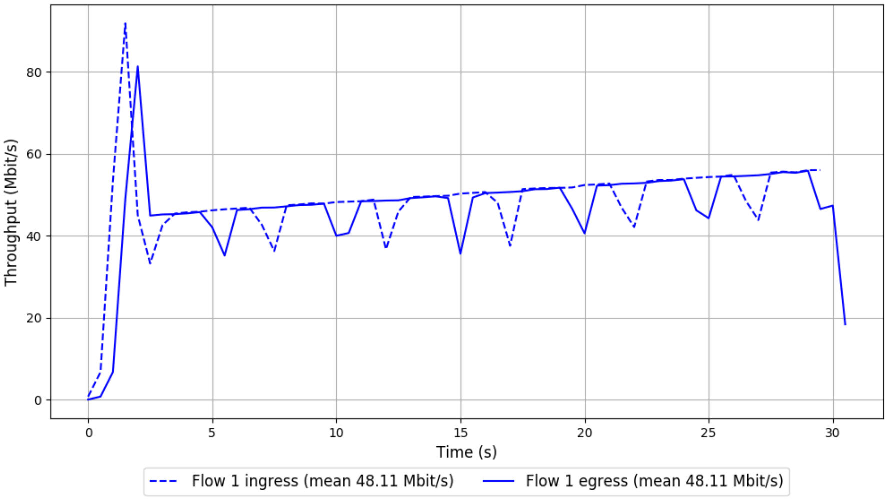
Run 7: Report of TCP Vegas — Data Link

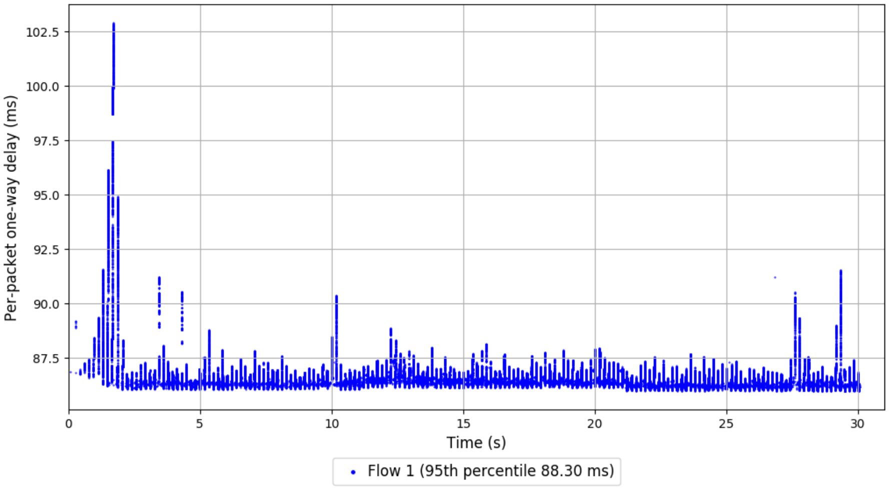




```
Run 8: Statistics of TCP Vegas

Start at: 2018-05-24 02:02:18
End at: 2018-05-24 02:02:48
Local clock offset: 2.535 ms
Remote clock offset: 2.168 ms

# Below is generated by plot.py at 2018-05-24 04:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.11 Mbit/s
95th percentile per-packet one-way delay: 88.304 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.11 Mbit/s
95th percentile per-packet one-way delay: 88.304 ms
Loss rate: 0.00%
```

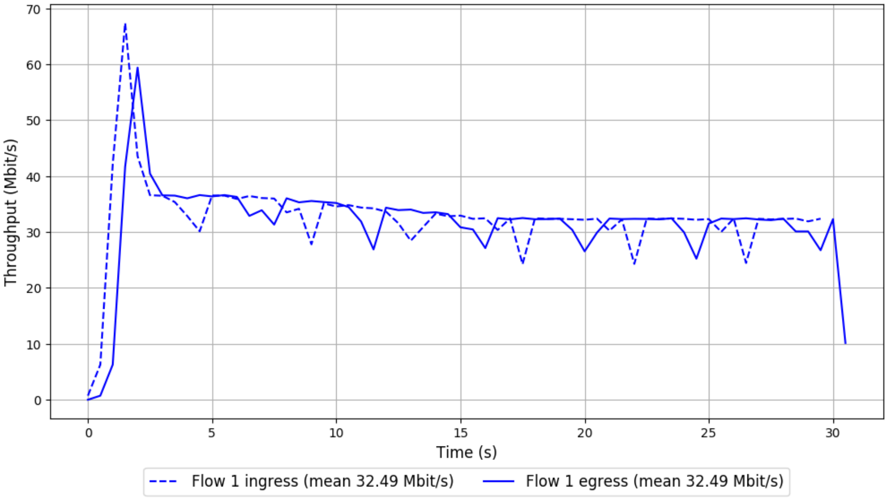
Run 8: Report of TCP Vegas — Data Link

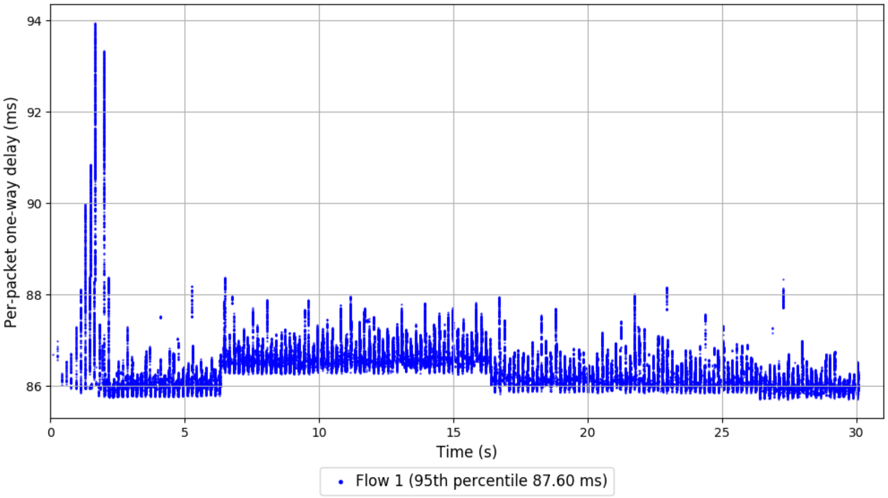




```
Run 9: Statistics of TCP Vegas

Start at: 2018-05-24 02:23:13
End at: 2018-05-24 02:23:43
Local clock offset: 1.859 ms
Remote clock offset: 1.351 ms

# Below is generated by plot.py at 2018-05-24 04:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 87.596 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.49 Mbit/s
95th percentile per-packet one-way delay: 87.596 ms
Loss rate: 0.00%
```

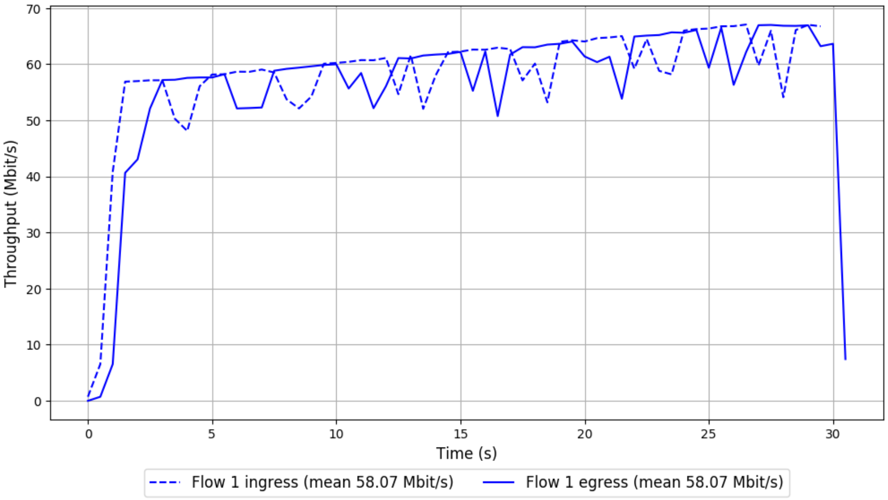
Run 9: Report of TCP Vegas — Data Link

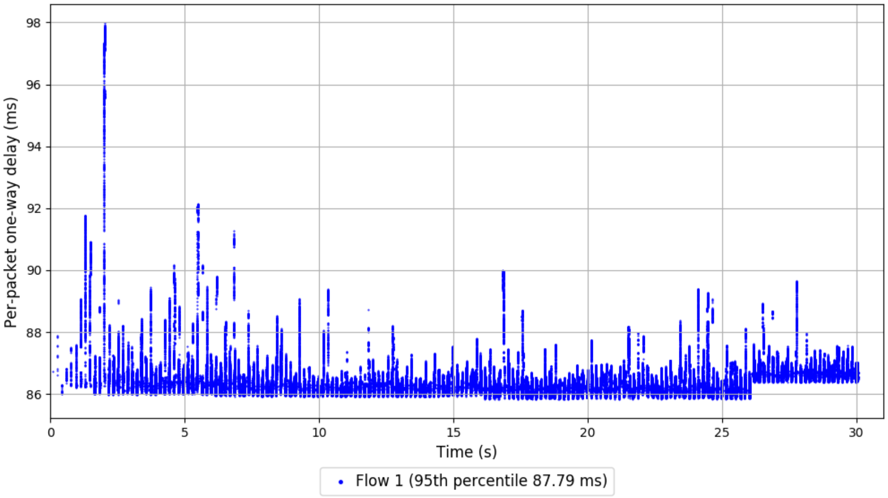




```
Run 10: Statistics of TCP Vegas

Start at: 2018-05-24 02:44:24
End at: 2018-05-24 02:44:54
Local clock offset: 1.063 ms
Remote clock offset: 0.646 ms

# Below is generated by plot.py at 2018-05-24 04:28:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 87.789 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.07 Mbit/s
95th percentile per-packet one-way delay: 87.789 ms
Loss rate: 0.00%
```

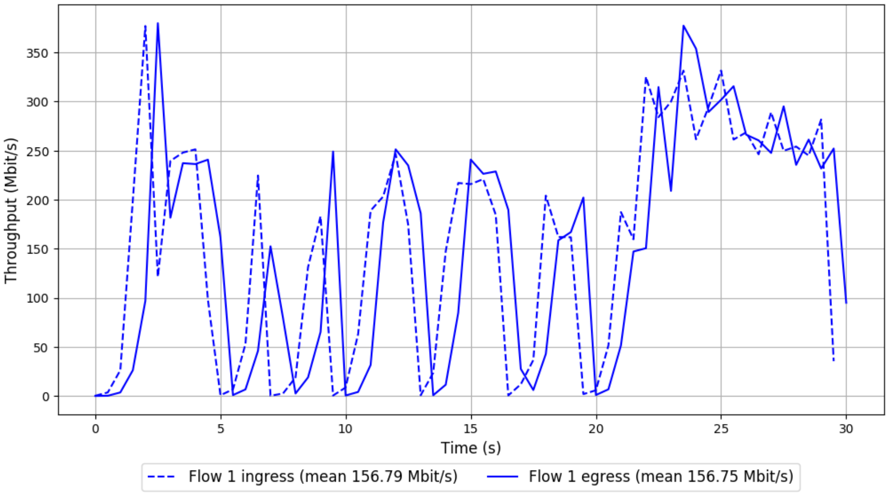
Run 10: Report of TCP Vegas — Data Link

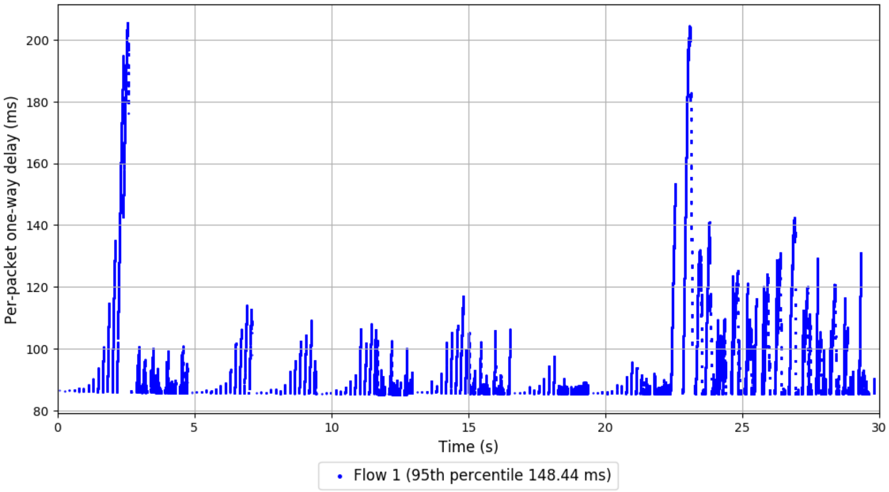




```
Run 1: Statistics of Verus

Start at: 2018-05-23 23:46:06
End at: 2018-05-23 23:46:37
Local clock offset: 19.329 ms
Remote clock offset: 14.95 ms

# Below is generated by plot.py at 2018-05-24 04:28:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 156.75 Mbit/s
95th percentile per-packet one-way delay: 148.435 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 156.75 Mbit/s
95th percentile per-packet one-way delay: 148.435 ms
Loss rate: 0.02%
```

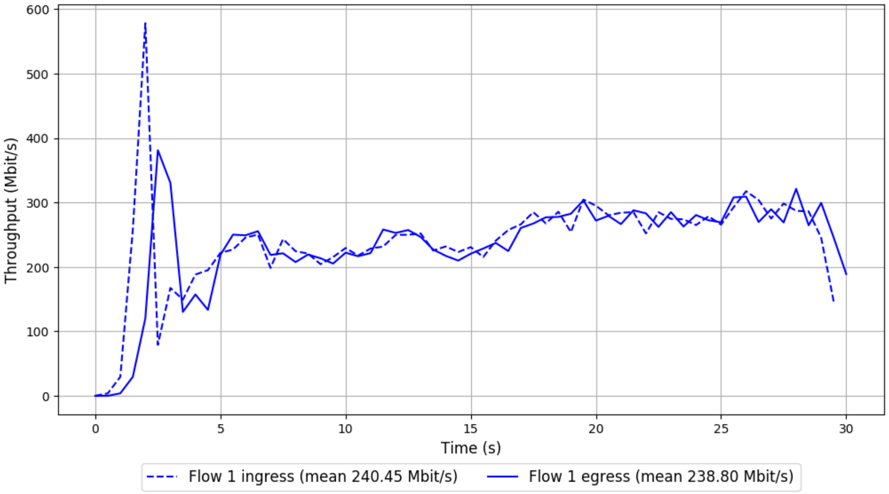
Run 1: Report of Verus — Data Link

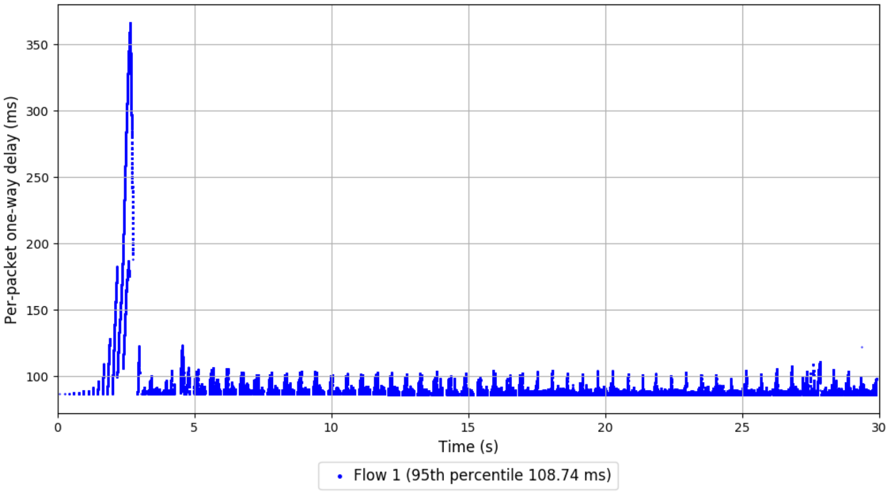




```
Run 2: Statistics of Verus

Start at: 2018-05-24 00:06:57
End at: 2018-05-24 00:07:27
Local clock offset: 23.776 ms
Remote clock offset: 19.0 ms

# Below is generated by plot.py at 2018-05-24 04:30:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 238.80 Mbit/s
95th percentile per-packet one-way delay: 108.736 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 238.80 Mbit/s
95th percentile per-packet one-way delay: 108.736 ms
Loss rate: 0.68%
```

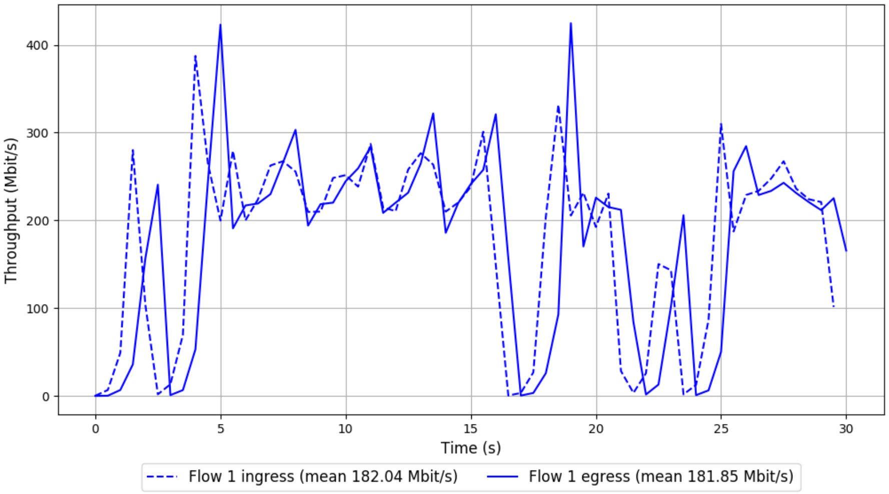
Run 2: Report of Verus — Data Link

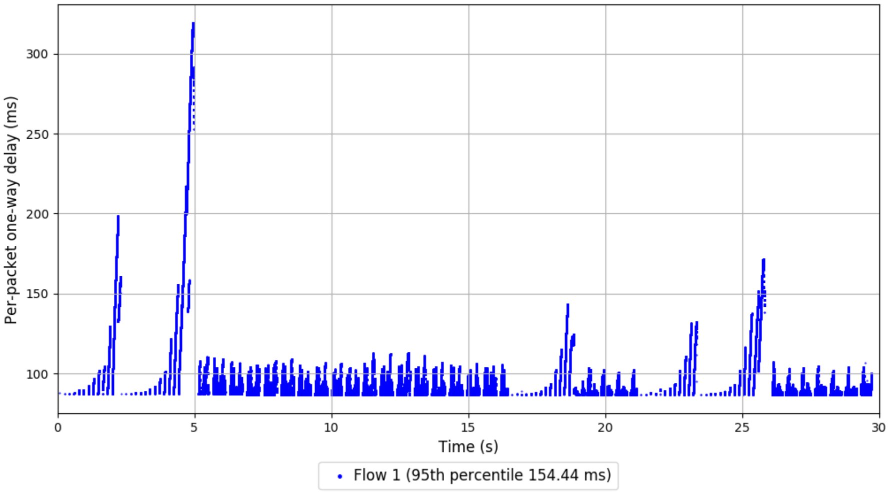




```
Run 3: Statistics of Verus

Start at: 2018-05-24 00:28:13
End at: 2018-05-24 00:28:43
Local clock offset: 32.571 ms
Remote clock offset: 26.079 ms

# Below is generated by plot.py at 2018-05-24 04:30:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 181.85 Mbit/s
95th percentile per-packet one-way delay: 154.443 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 181.85 Mbit/s
95th percentile per-packet one-way delay: 154.443 ms
Loss rate: 0.09%
```

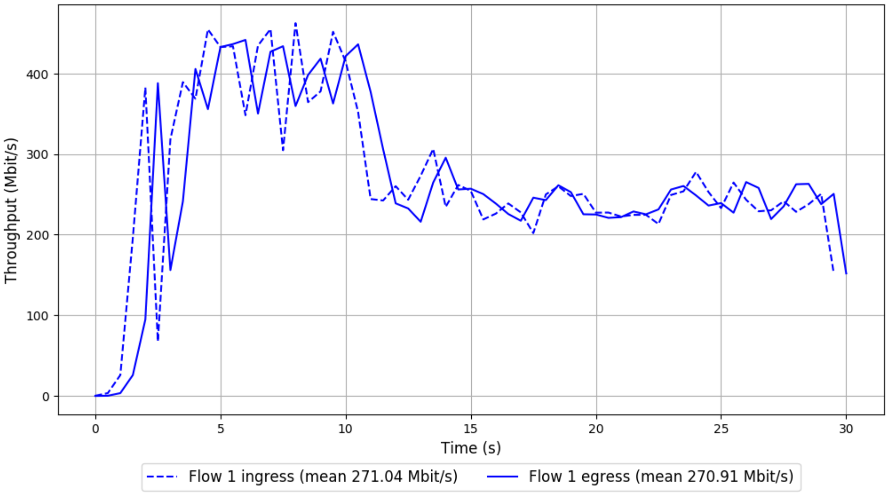
Run 3: Report of Verus — Data Link

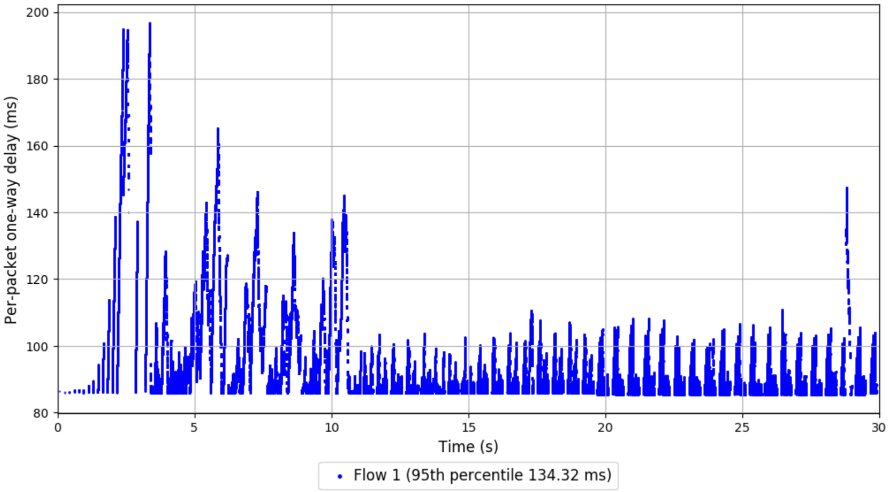




```
Run 4: Statistics of Verus

Start at: 2018-05-24 00:49:20
End at: 2018-05-24 00:49:50
Local clock offset: 18.928 ms
Remote clock offset: 14.646 ms

# Below is generated by plot.py at 2018-05-24 04:31:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 270.91 Mbit/s
95th percentile per-packet one-way delay: 134.317 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 270.91 Mbit/s
95th percentile per-packet one-way delay: 134.317 ms
Loss rate: 0.05%
```

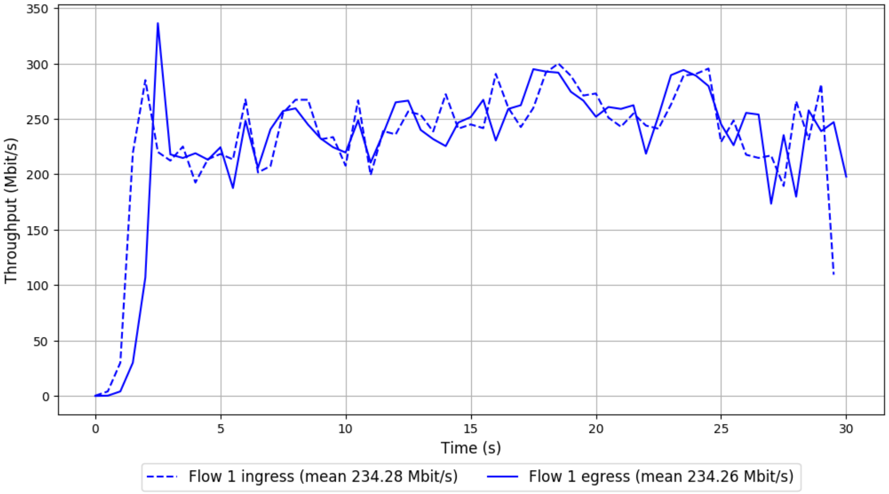
Run 4: Report of Verus — Data Link

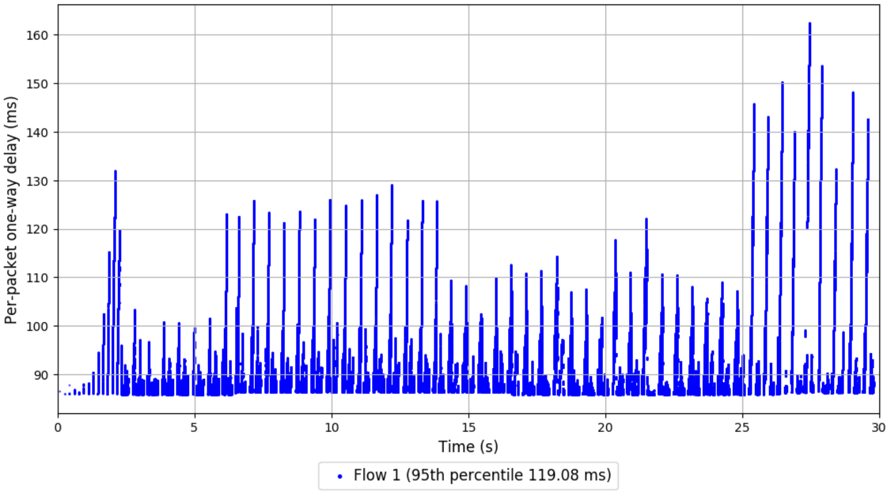




```
Run 5: Statistics of Verus

Start at: 2018-05-24 01:10:33
End at: 2018-05-24 01:11:03
Local clock offset: 21.946 ms
Remote clock offset: 16.963 ms

# Below is generated by plot.py at 2018-05-24 04:31:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 234.26 Mbit/s
95th percentile per-packet one-way delay: 119.077 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.26 Mbit/s
95th percentile per-packet one-way delay: 119.077 ms
Loss rate: 0.00%
```

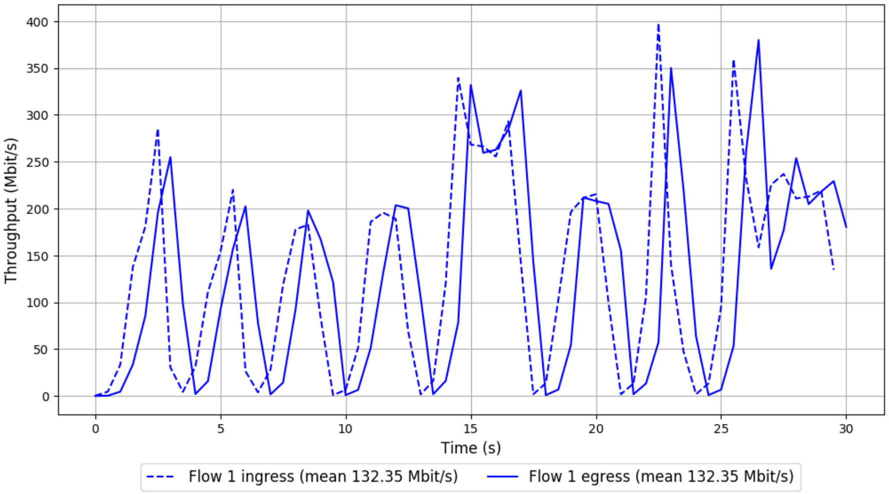
Run 5: Report of Verus — Data Link

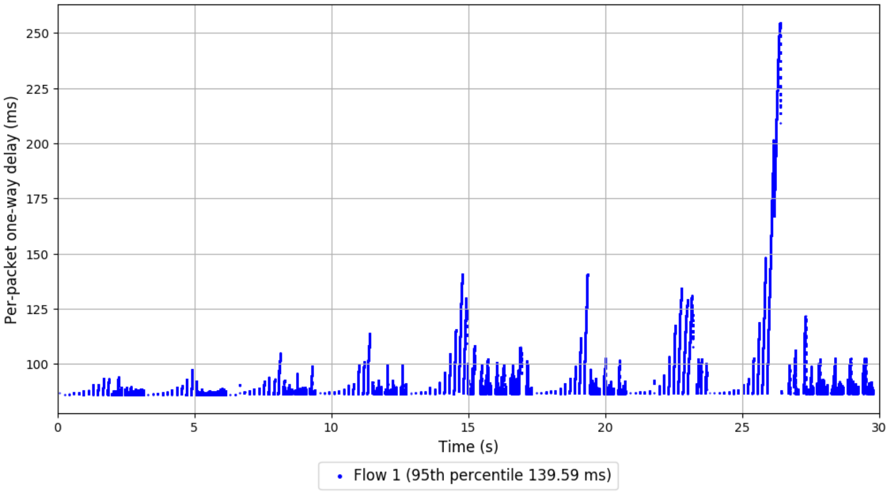




```
Run 6: Statistics of Verus

Start at: 2018-05-24 01:31:43
End at: 2018-05-24 01:32:13
Local clock offset: 8.05 ms
Remote clock offset: 6.491 ms

# Below is generated by plot.py at 2018-05-24 04:31:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 132.35 Mbit/s
95th percentile per-packet one-way delay: 139.588 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 132.35 Mbit/s
95th percentile per-packet one-way delay: 139.588 ms
Loss rate: 0.00%
```

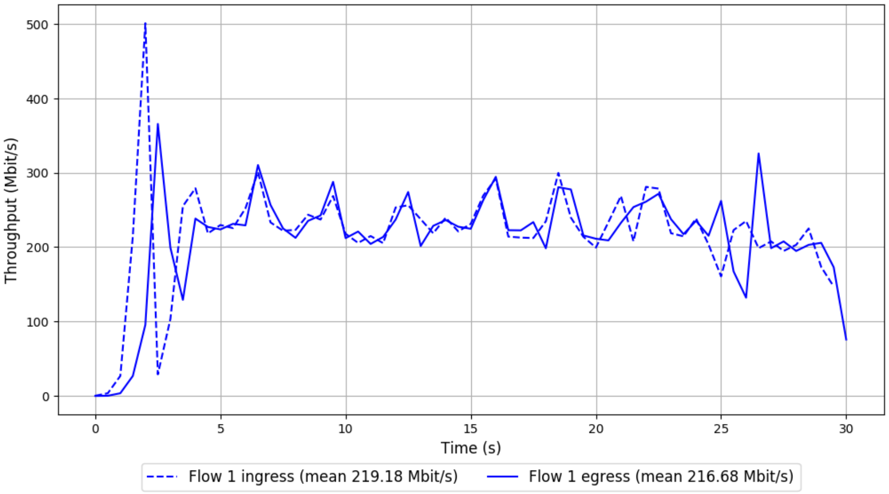
Run 6: Report of Verus — Data Link

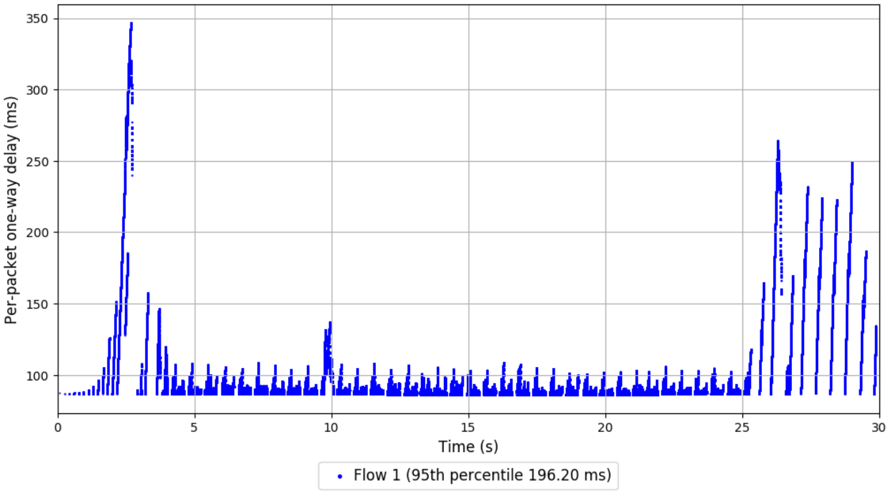




```
Run 7: Statistics of Verus

Start at: 2018-05-24 01:52:47
End at: 2018-05-24 01:53:17
Local clock offset: 4.877 ms
Remote clock offset: 4.194 ms

# Below is generated by plot.py at 2018-05-24 04:32:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.68 Mbit/s
95th percentile per-packet one-way delay: 196.197 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 216.68 Mbit/s
95th percentile per-packet one-way delay: 196.197 ms
Loss rate: 1.14%
```

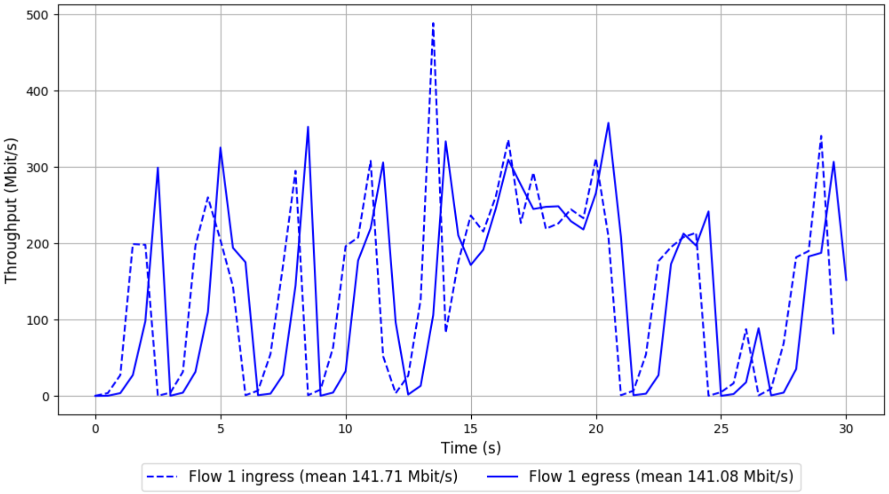
Run 7: Report of Verus — Data Link

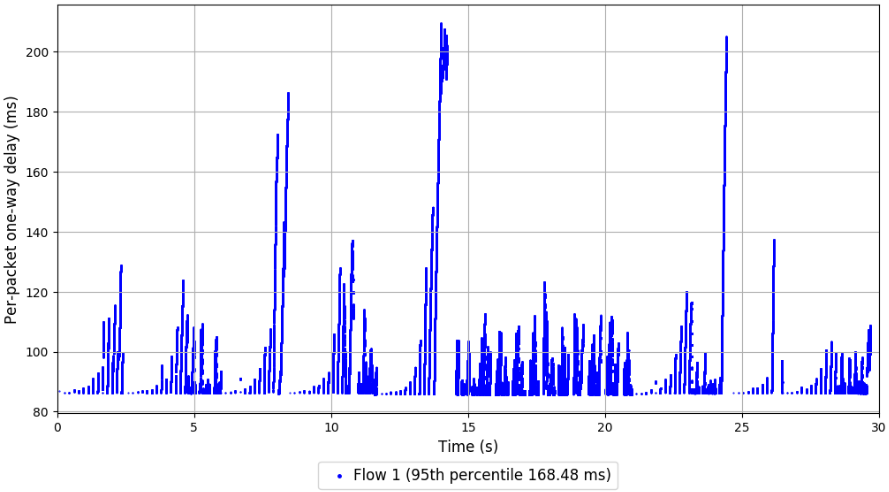




```
Run 8: Statistics of Verus

Start at: 2018-05-24 02:13:48
End at: 2018-05-24 02:14:18
Local clock offset: 2.48 ms
Remote clock offset: 1.762 ms

# Below is generated by plot.py at 2018-05-24 04:32:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 141.08 Mbit/s
95th percentile per-packet one-way delay: 168.479 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 141.08 Mbit/s
95th percentile per-packet one-way delay: 168.479 ms
Loss rate: 0.40%
```

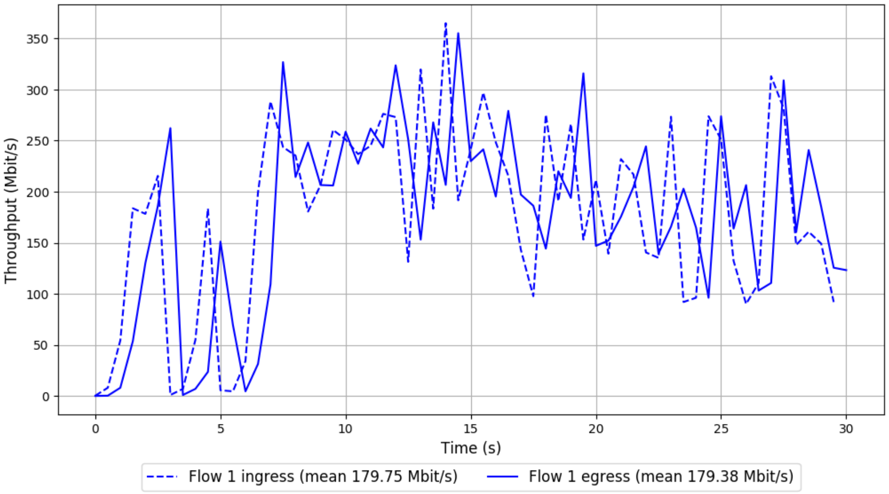
Run 8: Report of Verus — Data Link

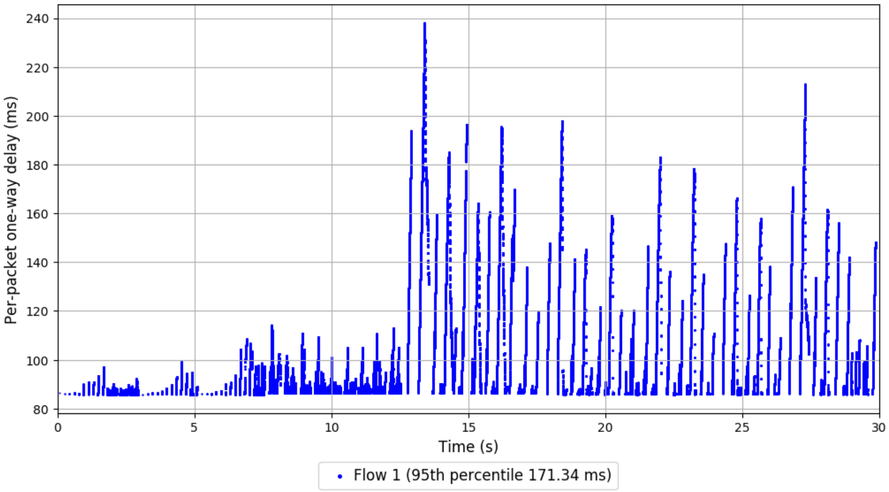




```
Run 9: Statistics of Verus

Start at: 2018-05-24 02:34:42
End at: 2018-05-24 02:35:12
Local clock offset: 1.133 ms
Remote clock offset: 0.647 ms

# Below is generated by plot.py at 2018-05-24 04:32:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 179.38 Mbit/s
95th percentile per-packet one-way delay: 171.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 179.38 Mbit/s
95th percentile per-packet one-way delay: 171.344 ms
Loss rate: 0.00%
```

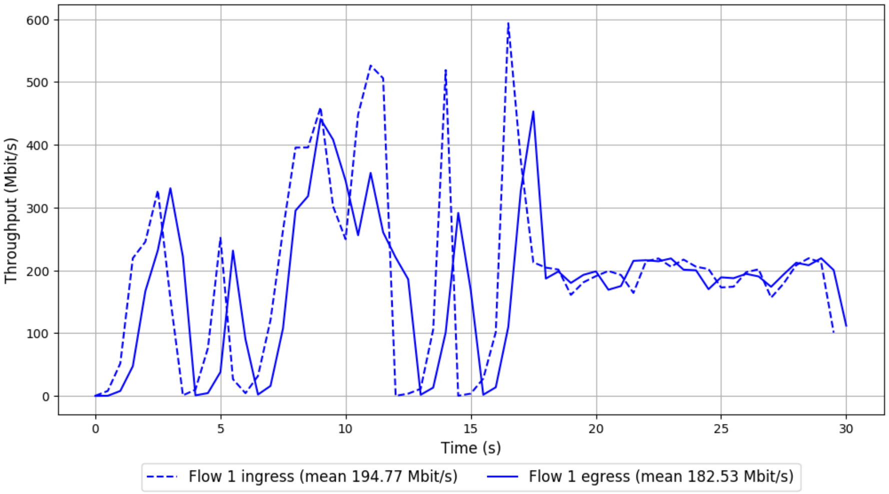
Run 9: Report of Verus — Data Link

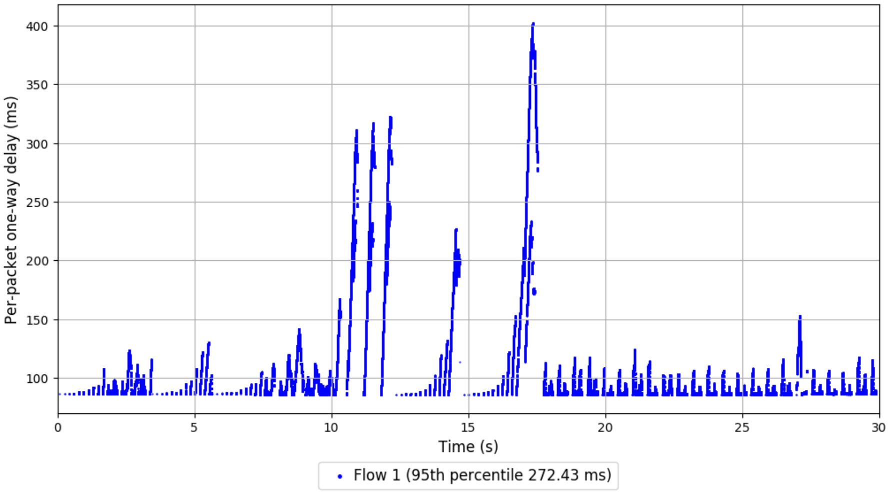




```
Run 10: Statistics of Verus

Start at: 2018-05-24 02:55:42
End at: 2018-05-24 02:56:12
Local clock offset: 1.351 ms
Remote clock offset: 0.609 ms

# Below is generated by plot.py at 2018-05-24 04:32:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.53 Mbit/s
95th percentile per-packet one-way delay: 272.430 ms
Loss rate: 6.28%
-- Flow 1:
Average throughput: 182.53 Mbit/s
95th percentile per-packet one-way delay: 272.430 ms
Loss rate: 6.28%
```

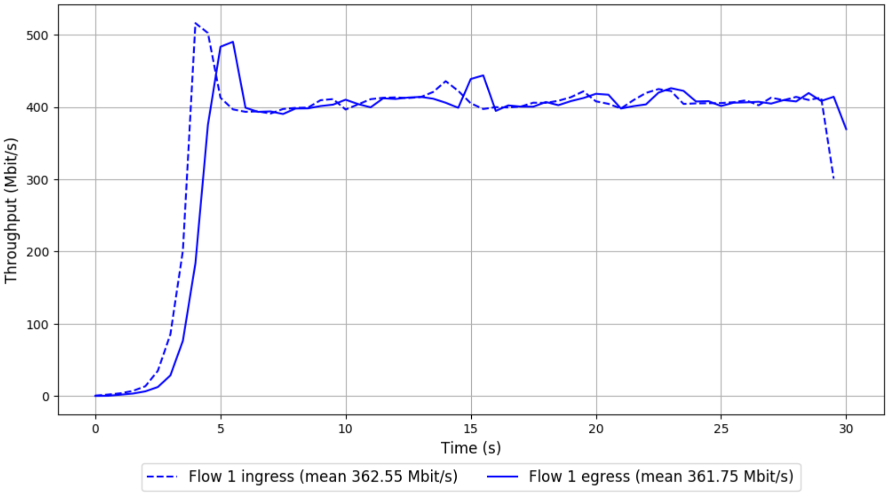
Run 10: Report of Verus — Data Link

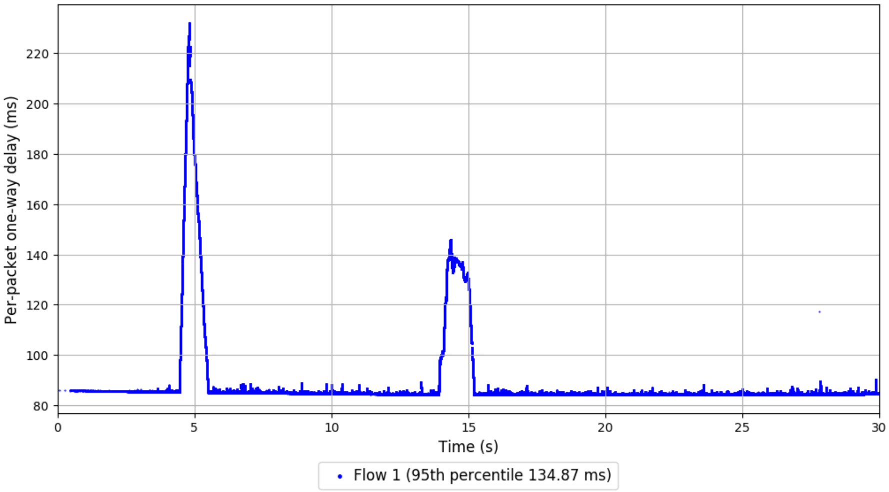




```
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-23 23:33:20
End at: 2018-05-23 23:33:50
Local clock offset: 7.985 ms
Remote clock offset: 5.604 ms

# Below is generated by plot.py at 2018-05-24 04:36:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 361.75 Mbit/s
95th percentile per-packet one-way delay: 134.866 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 361.75 Mbit/s
95th percentile per-packet one-way delay: 134.866 ms
Loss rate: 0.22%
```

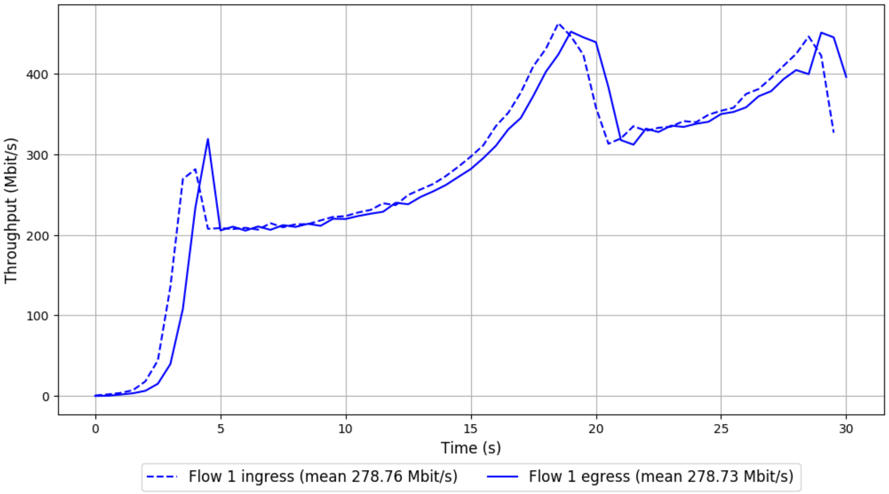
Run 1: Report of PCC-Vivace — Data Link

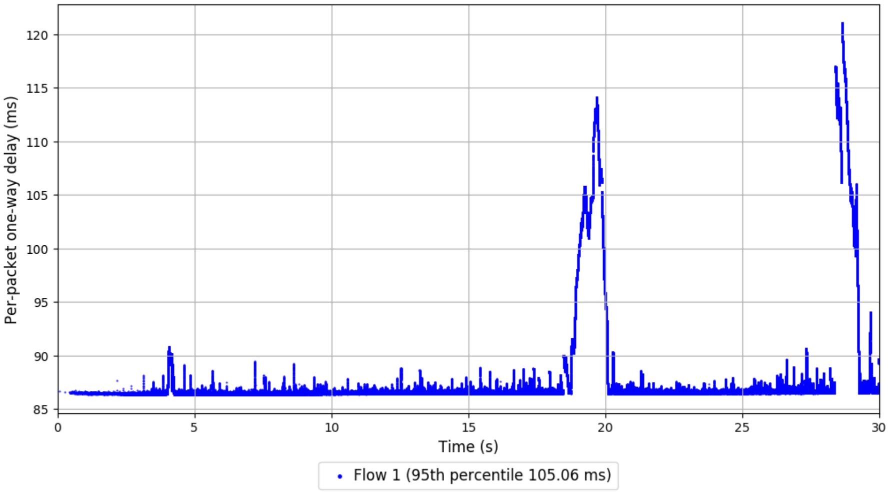




```
Run 2: Statistics of PCC-Vivace

Start at: 2018-05-23 23:53:59
End at: 2018-05-23 23:54:29
Local clock offset: 16.125 ms
Remote clock offset: 12.677 ms

# Below is generated by plot.py at 2018-05-24 04:36:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 278.73 Mbit/s
95th percentile per-packet one-way delay: 105.055 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 278.73 Mbit/s
95th percentile per-packet one-way delay: 105.055 ms
Loss rate: 0.01%
```

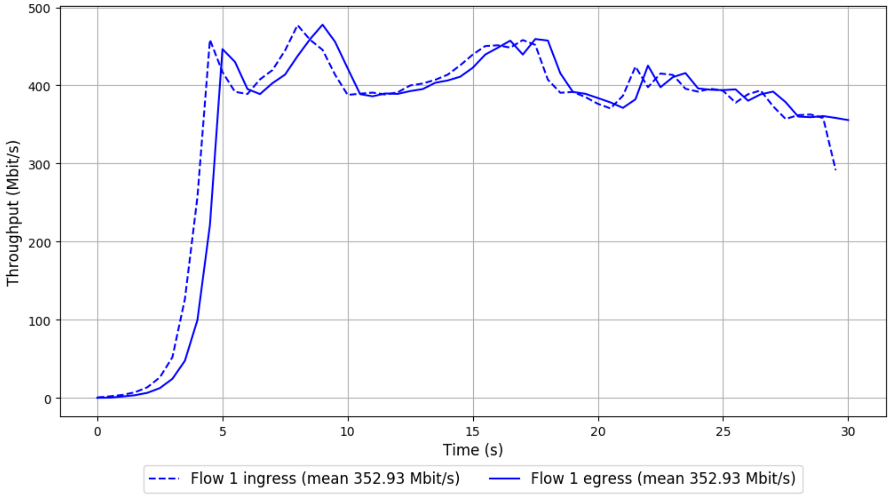
Run 2: Report of PCC-Vivace — Data Link

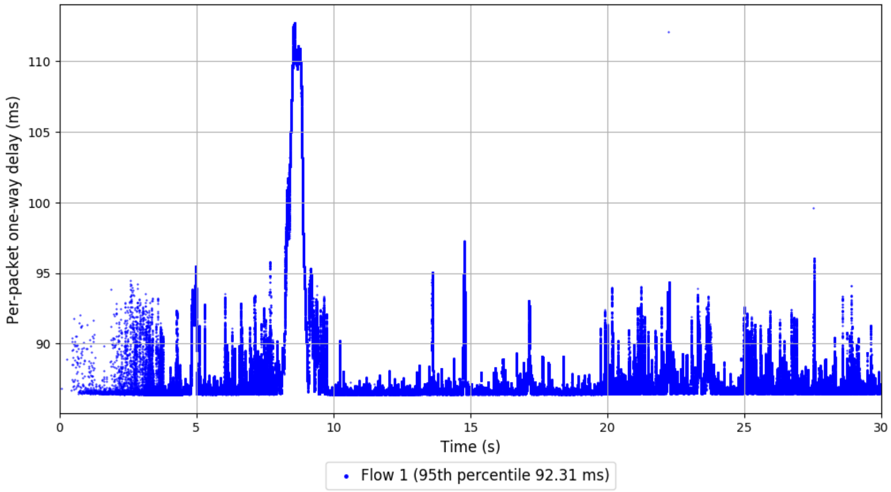




```
Run 3: Statistics of PCC-Vivace

Start at: 2018-05-24 00:15:10
End at: 2018-05-24 00:15:40
Local clock offset: 22.33 ms
Remote clock offset: 17.631 ms

# Below is generated by plot.py at 2018-05-24 04:37:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 352.93 Mbit/s
95th percentile per-packet one-way delay: 92.314 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 352.93 Mbit/s
95th percentile per-packet one-way delay: 92.314 ms
Loss rate: 0.00%
```

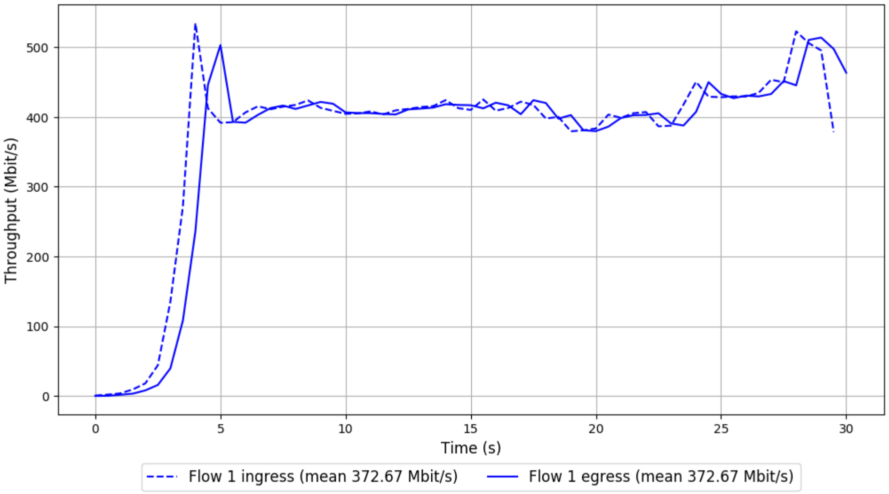
Run 3: Report of PCC-Vivace — Data Link

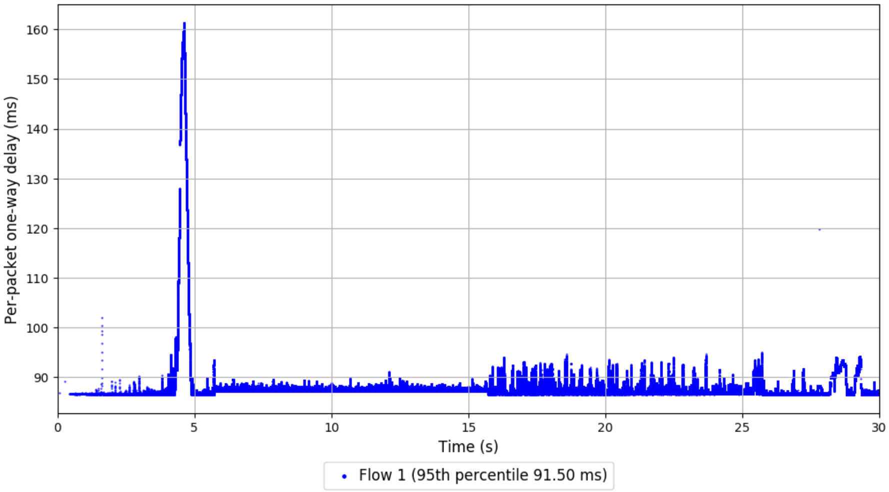




```
Run 4: Statistics of PCC-Vivace

Start at: 2018-05-24 00:36:14
End at: 2018-05-24 00:36:44
Local clock offset: 41.827 ms
Remote clock offset: 33.343 ms

# Below is generated by plot.py at 2018-05-24 04:37:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 372.67 Mbit/s
95th percentile per-packet one-way delay: 91.503 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 372.67 Mbit/s
95th percentile per-packet one-way delay: 91.503 ms
Loss rate: 0.00%
```

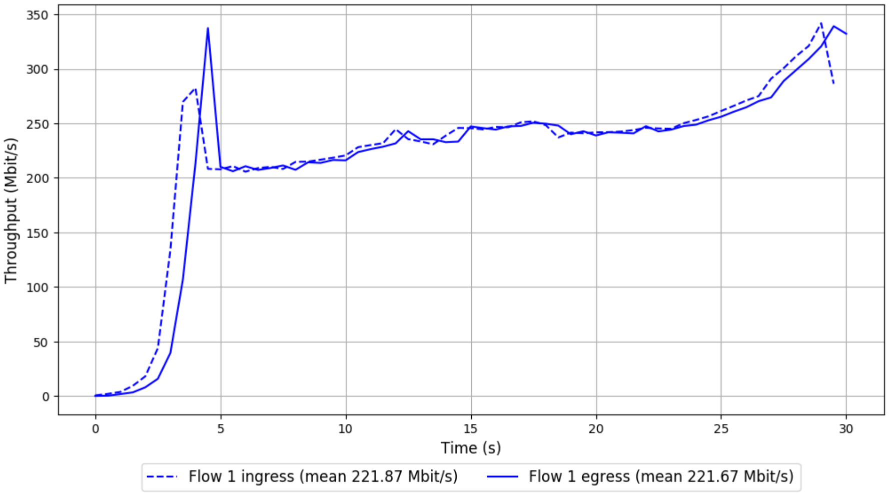
Run 4: Report of PCC-Vivace — Data Link

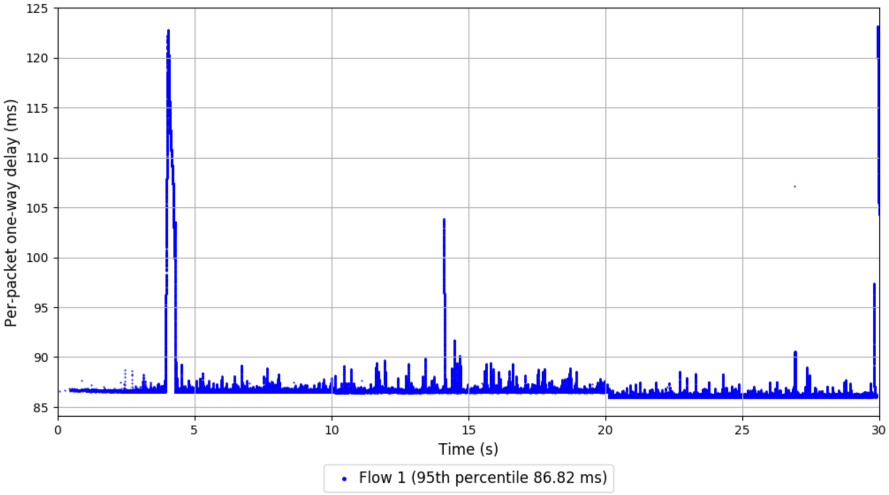




```
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-24 00:57:39
End at: 2018-05-24 00:58:09
Local clock offset: 16.9 ms
Remote clock offset: 13.278 ms

# Below is generated by plot.py at 2018-05-24 04:37:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 221.67 Mbit/s
95th percentile per-packet one-way delay: 86.818 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 221.67 Mbit/s
95th percentile per-packet one-way delay: 86.818 ms
Loss rate: 0.09%
```

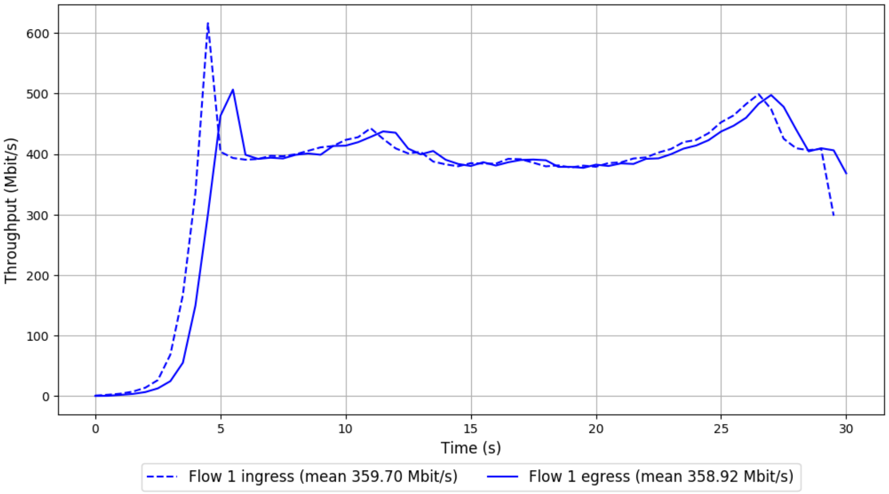
Run 5: Report of PCC-Vivace — Data Link

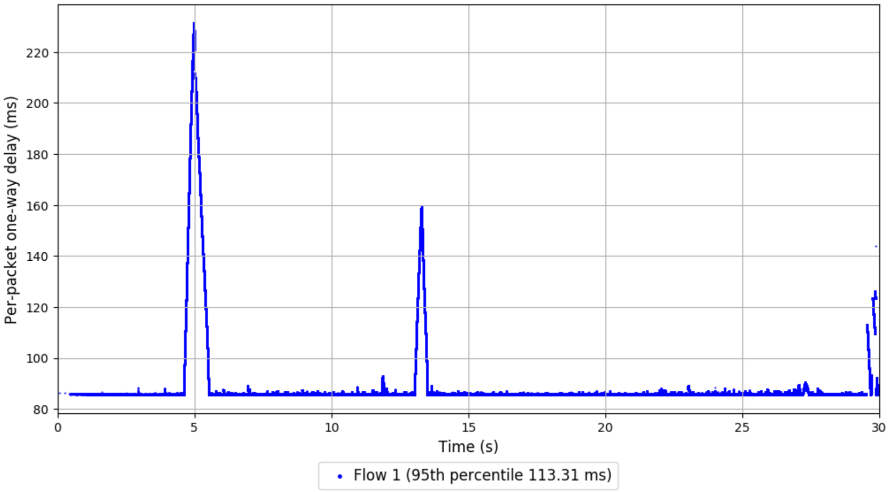




```
Run 6: Statistics of PCC-Vivace

Start at: 2018-05-24 01:18:39
End at: 2018-05-24 01:19:09
Local clock offset: 12.17 ms
Remote clock offset: 9.535 ms

# Below is generated by plot.py at 2018-05-24 04:38:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.92 Mbit/s
95th percentile per-packet one-way delay: 113.306 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 358.92 Mbit/s
95th percentile per-packet one-way delay: 113.306 ms
Loss rate: 0.22%
```

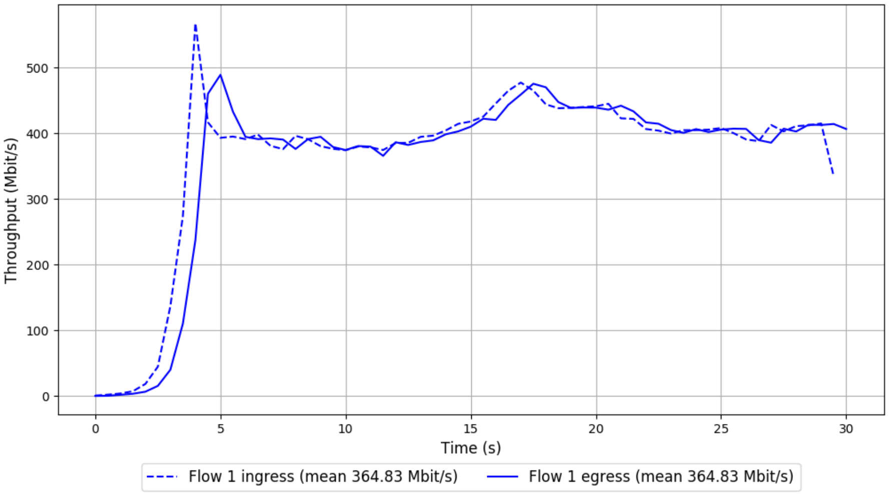
Run 6: Report of PCC-Vivace — Data Link

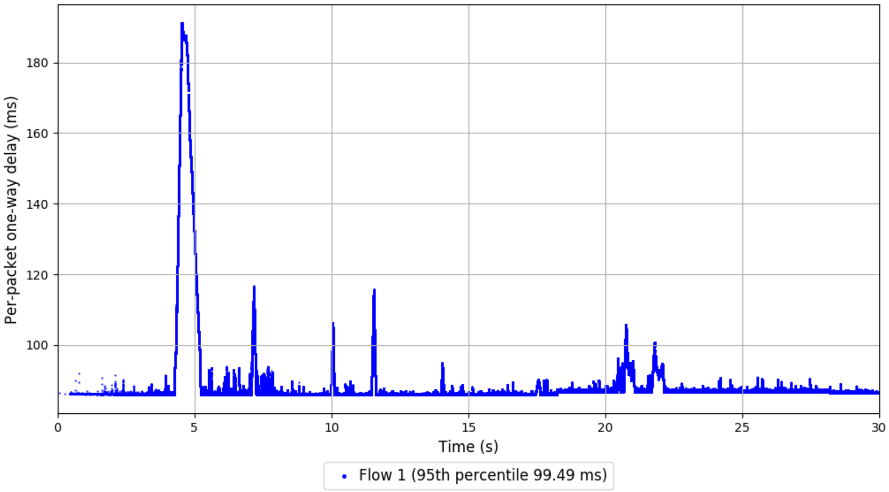




```
Run 7: Statistics of PCC-Vivace

Start at: 2018-05-24 01:39:41
End at: 2018-05-24 01:40:11
Local clock offset: 9.358 ms
Remote clock offset: 7.348 ms

# Below is generated by plot.py at 2018-05-24 04:38:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.83 Mbit/s
95th percentile per-packet one-way delay: 99.486 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 364.83 Mbit/s
95th percentile per-packet one-way delay: 99.486 ms
Loss rate: 0.00%
```

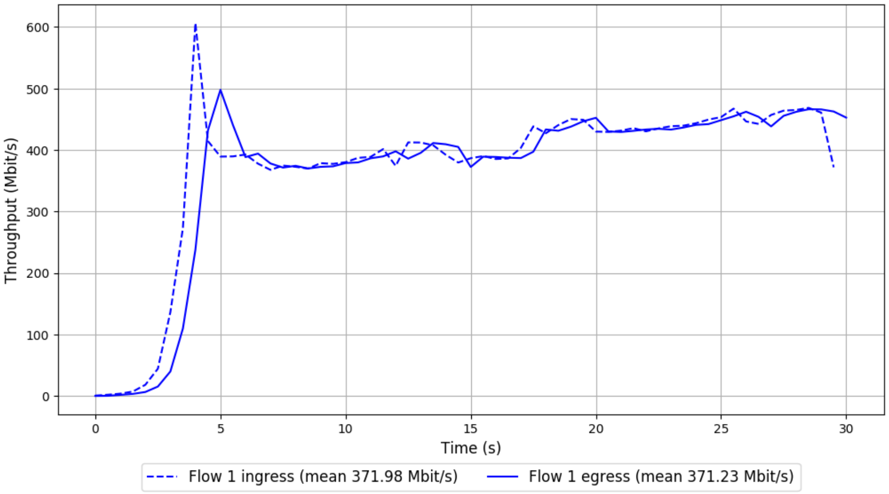
Run 7: Report of PCC-Vivace — Data Link

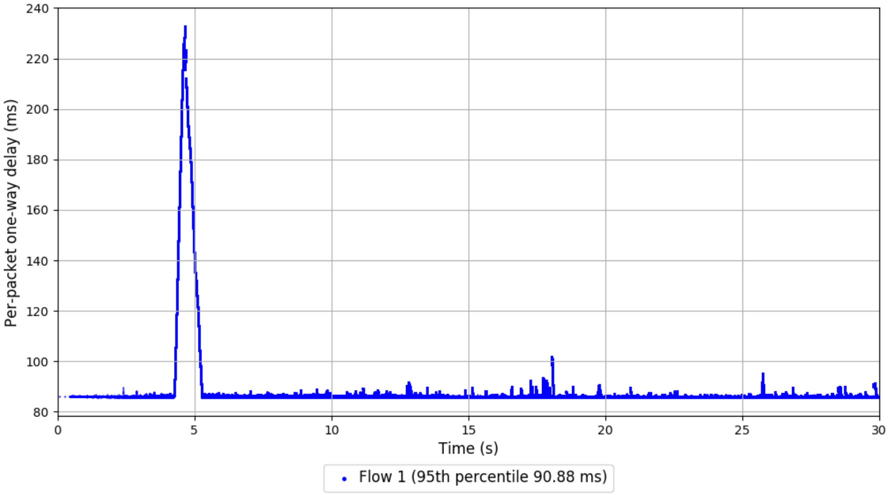




```
Run 8: Statistics of PCC-Vivace

Start at: 2018-05-24 02:00:45
End at: 2018-05-24 02:01:15
Local clock offset: 2.978 ms
Remote clock offset: 2.263 ms

# Below is generated by plot.py at 2018-05-24 04:38:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 371.23 Mbit/s
95th percentile per-packet one-way delay: 90.877 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 371.23 Mbit/s
95th percentile per-packet one-way delay: 90.877 ms
Loss rate: 0.20%
```

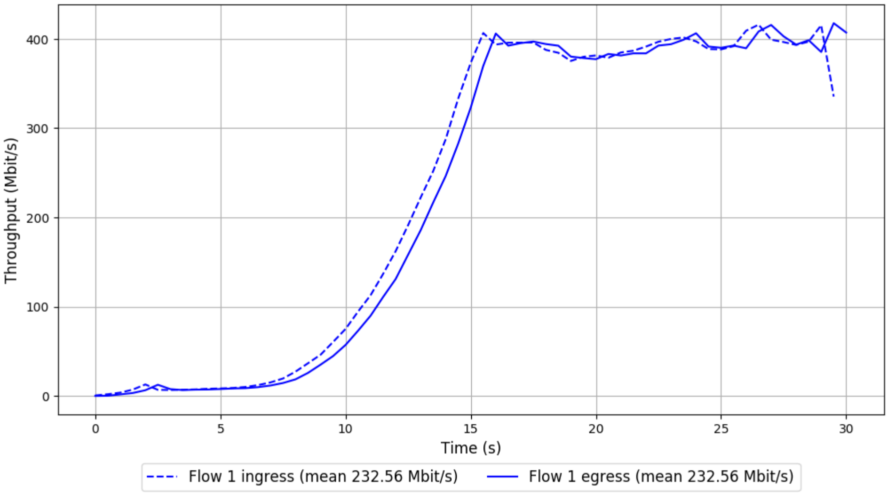
Run 8: Report of PCC-Vivace — Data Link

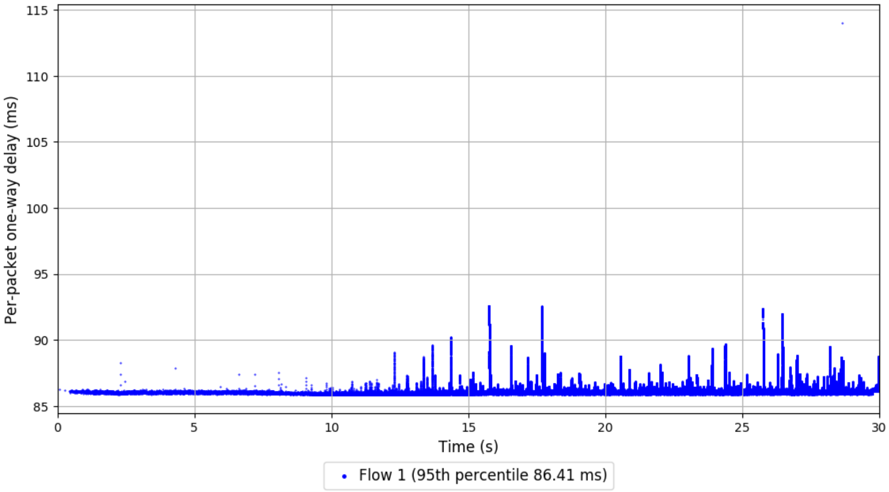




```
Run 9: Statistics of PCC-Vivace

Start at: 2018-05-24 02:21:50
End at: 2018-05-24 02:22:20
Local clock offset: 1.891 ms
Remote clock offset: 1.585 ms

# Below is generated by plot.py at 2018-05-24 04:38:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 232.56 Mbit/s
95th percentile per-packet one-way delay: 86.405 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 232.56 Mbit/s
95th percentile per-packet one-way delay: 86.405 ms
Loss rate: 0.00%
```

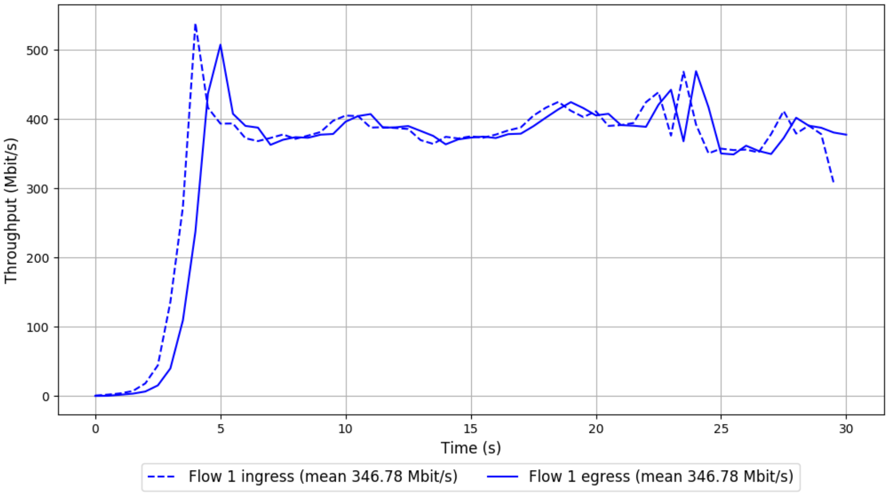
Run 9: Report of PCC-Vivace — Data Link

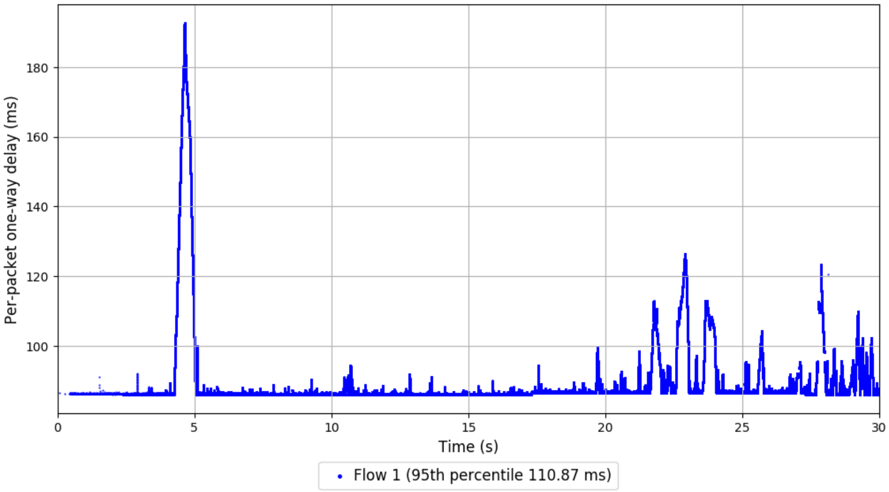




```
Run 10: Statistics of PCC-Vivace

Start at: 2018-05-24 02:42:52
End at: 2018-05-24 02:43:22
Local clock offset: 0.821 ms
Remote clock offset: 0.589 ms

# Below is generated by plot.py at 2018-05-24 04:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 346.78 Mbit/s
95th percentile per-packet one-way delay: 110.866 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 346.78 Mbit/s
95th percentile per-packet one-way delay: 110.866 ms
Loss rate: 0.00%
```

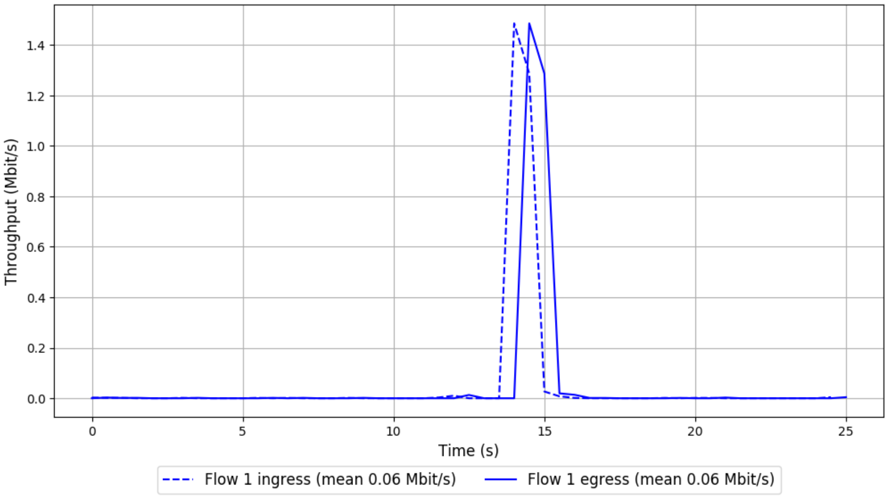
Run 10: Report of PCC-Vivace — Data Link

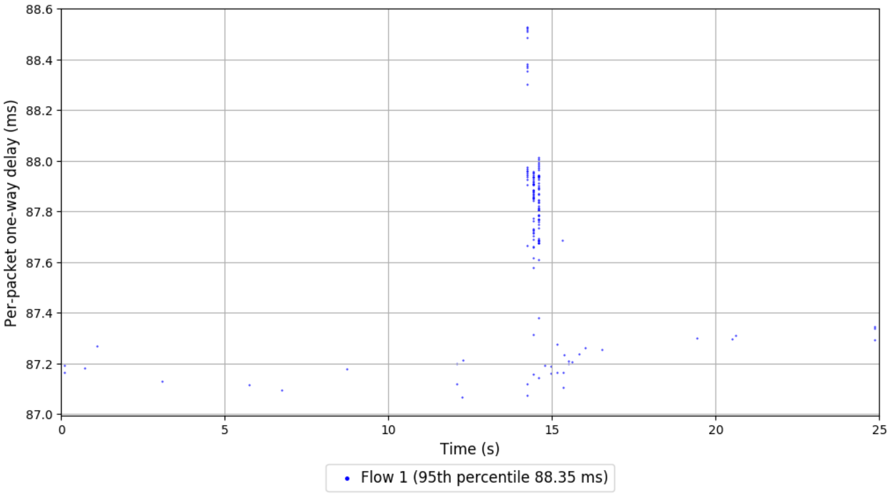




```
Run 1: Statistics of WebRTC media

Start at: 2018-05-23 23:43:53
End at: 2018-05-23 23:44:23
Local clock offset: 14.228 ms
Remote clock offset: 11.466 ms

# Below is generated by plot.py at 2018-05-24 04:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 88.354 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 88.354 ms
Loss rate: 0.00%
```

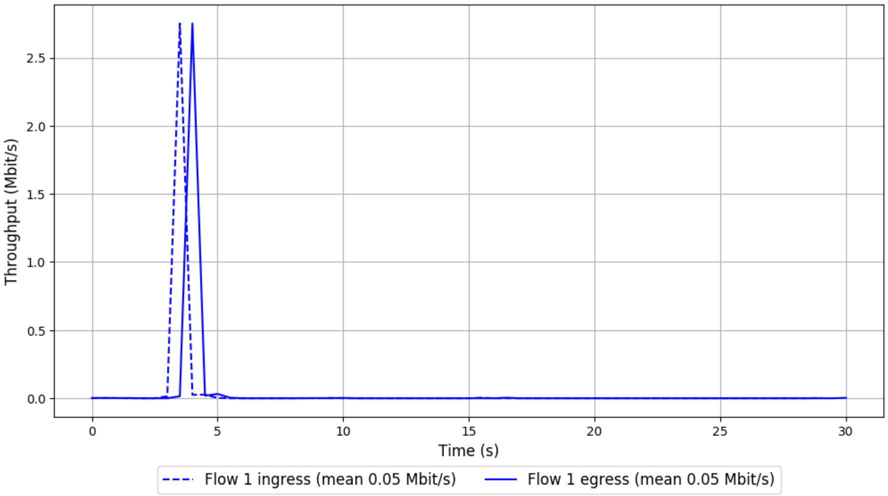
Run 1: Report of WebRTC media — Data Link

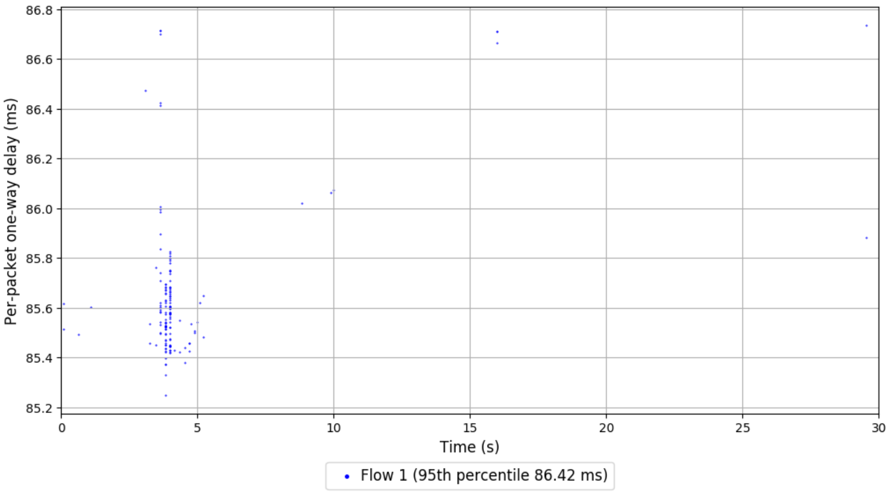




```
Run 2: Statistics of WebRTC media

Start at: 2018-05-24 00:04:44
End at: 2018-05-24 00:05:14
Local clock offset: 27.182 ms
Remote clock offset: 21.476 ms

# Below is generated by plot.py at 2018-05-24 04:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.423 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.423 ms
Loss rate: 0.00%
```

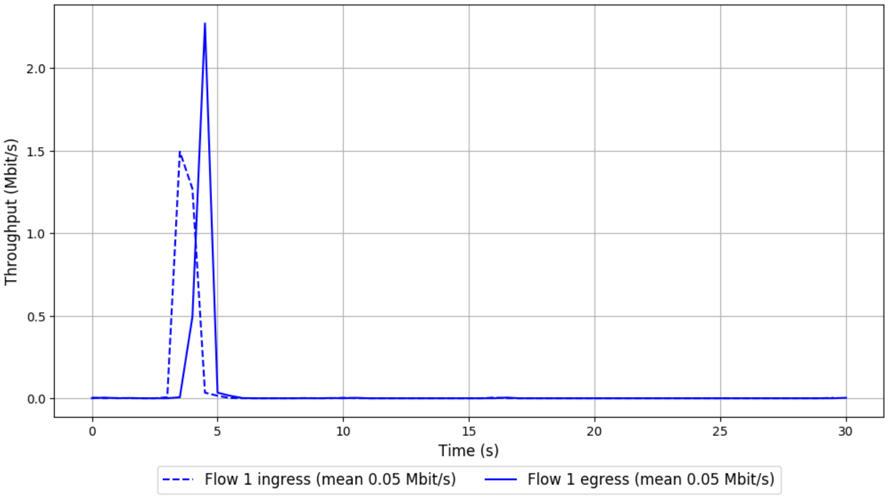
Run 2: Report of WebRTC media — Data Link

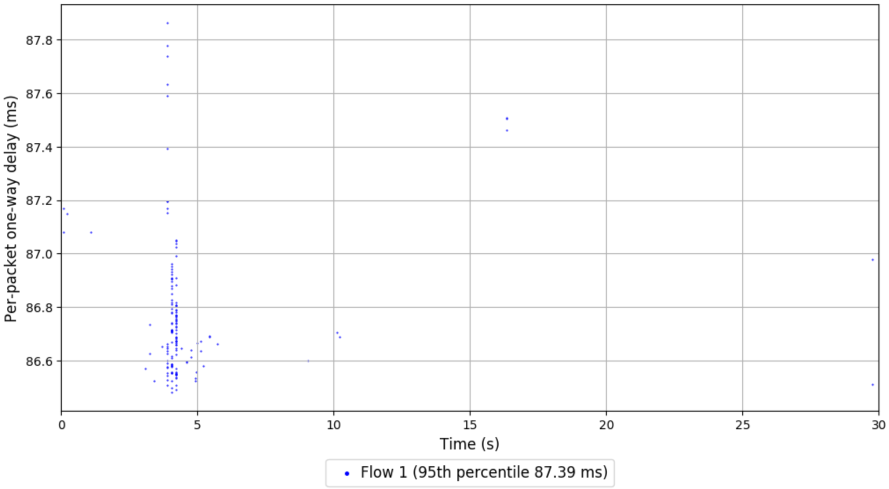




```
Run 3: Statistics of WebRTC media

Start at: 2018-05-24 00:26:00
End at: 2018-05-24 00:26:30
Local clock offset: 30.429 ms
Remote clock offset: 24.32 ms

# Below is generated by plot.py at 2018-05-24 04:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.394 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.394 ms
Loss rate: 0.00%
```

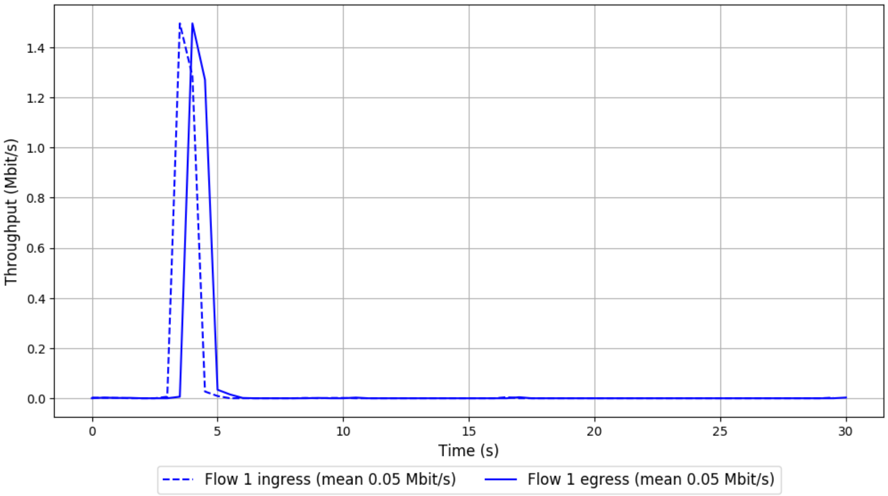
Run 3: Report of WebRTC media — Data Link

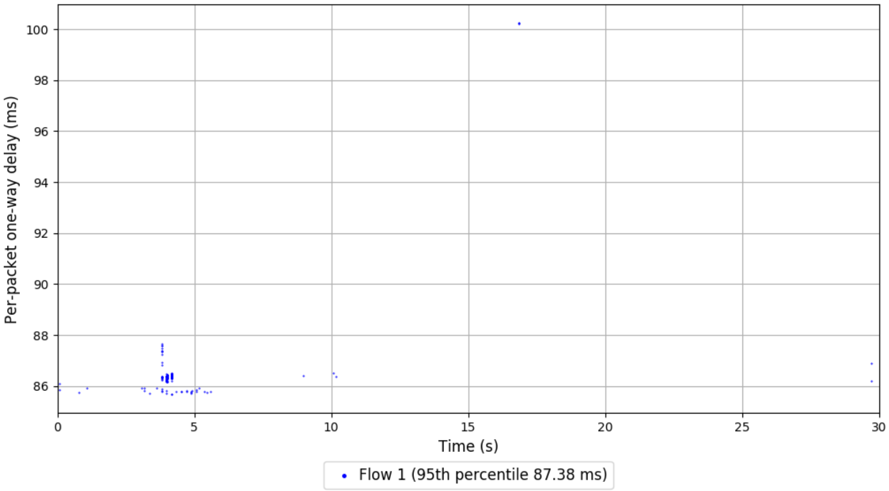




```
Run 4: Statistics of WebRTC media

Start at: 2018-05-24 00:47:07
End at: 2018-05-24 00:47:37
Local clock offset: 20.484 ms
Remote clock offset: 16.195 ms

# Below is generated by plot.py at 2018-05-24 04:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.382 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.382 ms
Loss rate: 0.00%
```

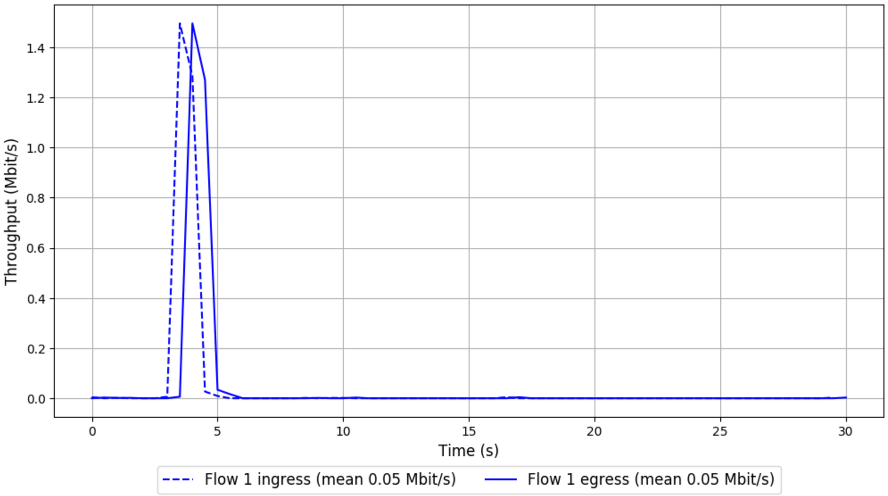
Run 4: Report of WebRTC media — Data Link

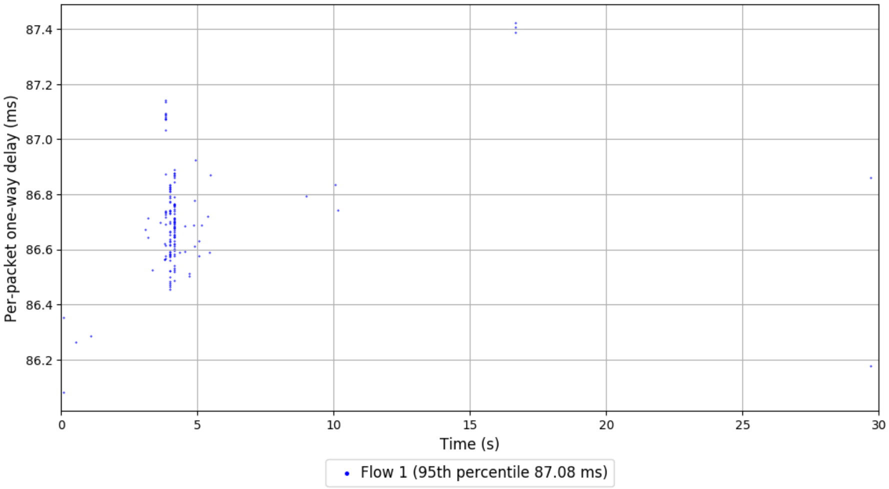




```
Run 5: Statistics of WebRTC media

Start at: 2018-05-24 01:08:20
End at: 2018-05-24 01:08:50
Local clock offset: 20.782 ms
Remote clock offset: 16.159 ms

# Below is generated by plot.py at 2018-05-24 04:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.080 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.080 ms
Loss rate: 0.00%
```

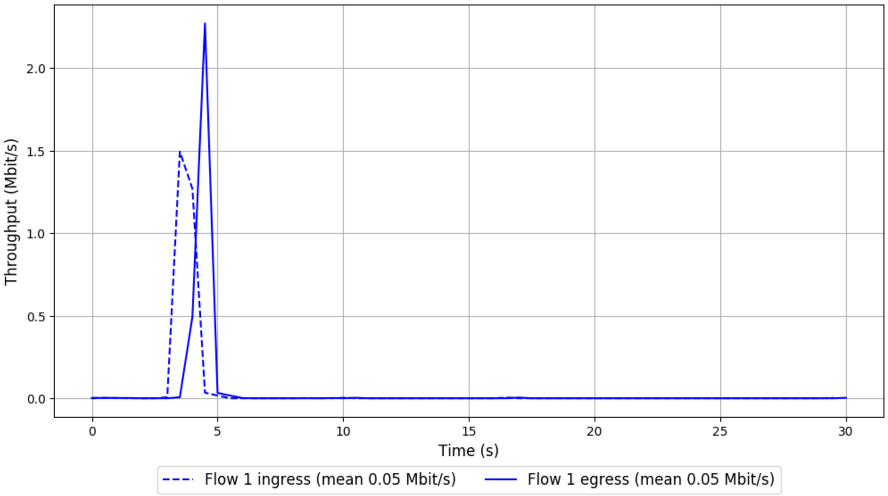
Run 5: Report of WebRTC media — Data Link

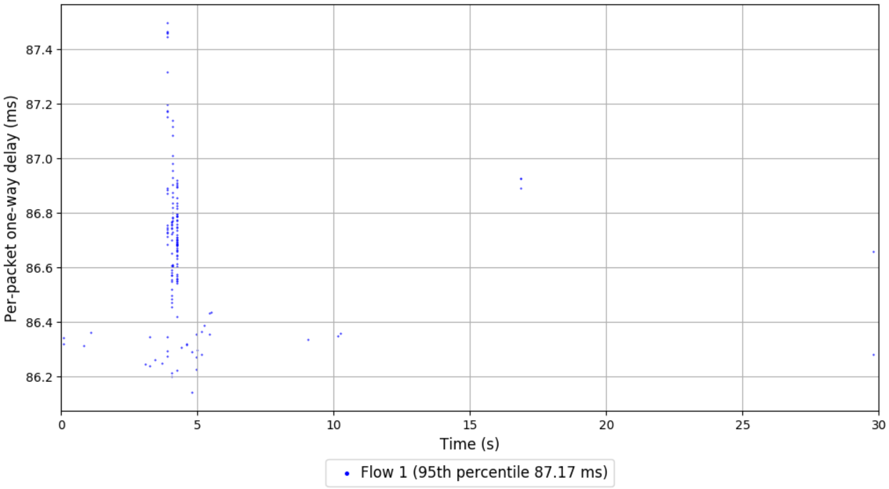




```
Run 6: Statistics of WebRTC media

Start at: 2018-05-24 01:29:30
End at: 2018-05-24 01:30:00
Local clock offset: 8.177 ms
Remote clock offset: 6.477 ms

# Below is generated by plot.py at 2018-05-24 04:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.171 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.171 ms
Loss rate: 0.00%
```

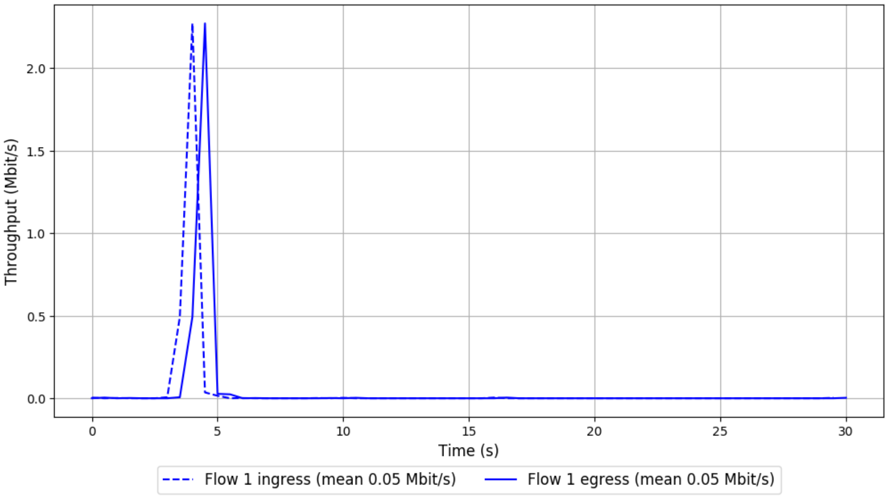
Run 6: Report of WebRTC media — Data Link

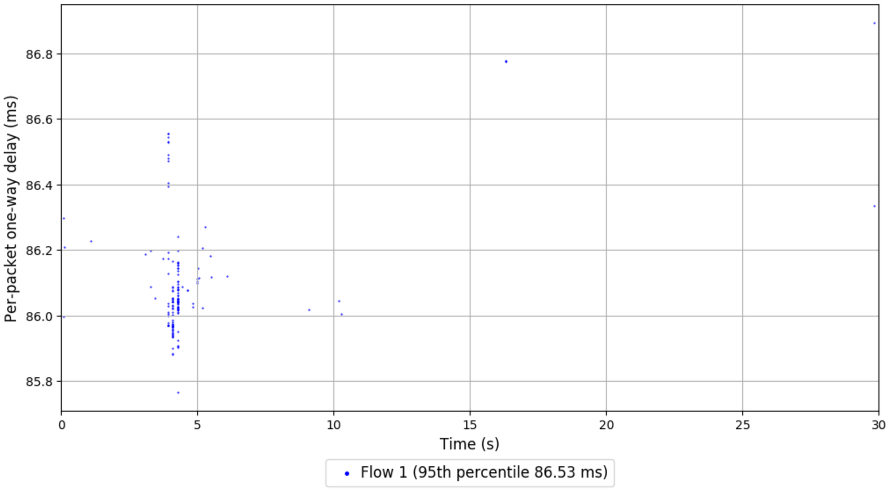




```
Run 7: Statistics of WebRTC media

Start at: 2018-05-24 01:50:34
End at: 2018-05-24 01:51:04
Local clock offset: 6.521 ms
Remote clock offset: 5.274 ms

# Below is generated by plot.py at 2018-05-24 04:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.529 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.529 ms
Loss rate: 0.00%
```

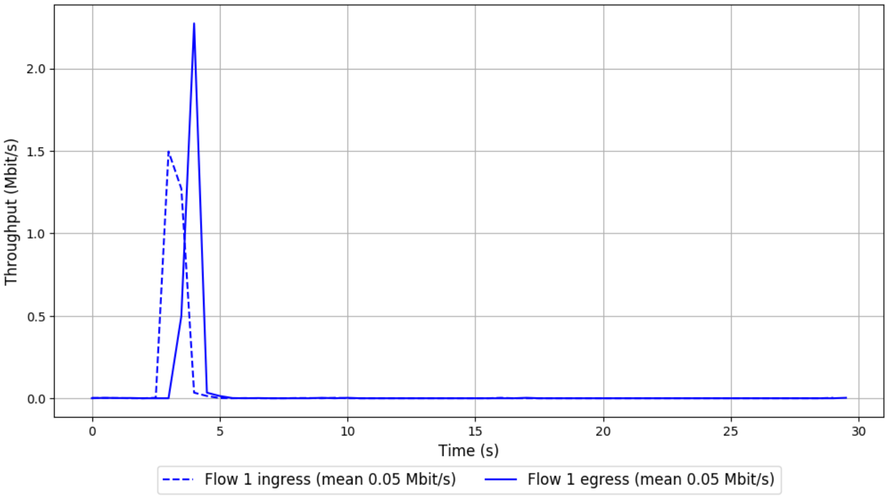
Run 7: Report of WebRTC media — Data Link

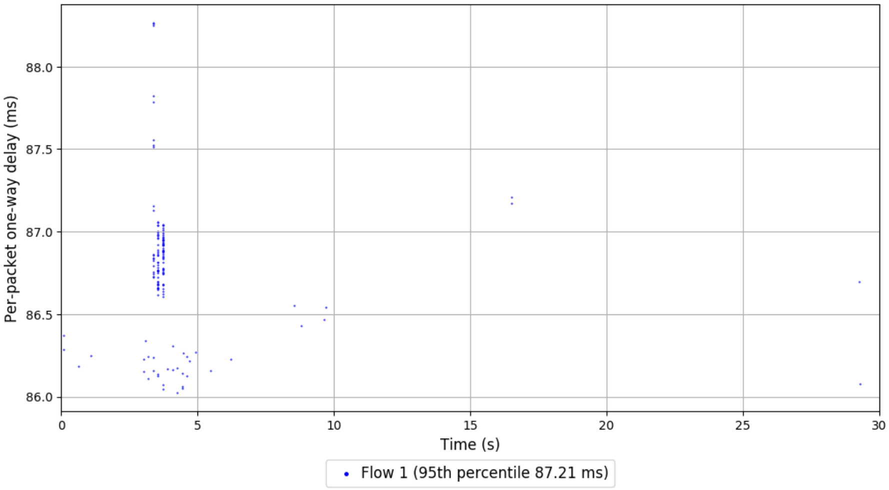




```
Run 8: Statistics of WebRTC media

Start at: 2018-05-24 02:11:34
End at: 2018-05-24 02:12:04
Local clock offset: 2.028 ms
Remote clock offset: 1.763 ms

# Below is generated by plot.py at 2018-05-24 04:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.208 ms
Loss rate: 0.00%
```

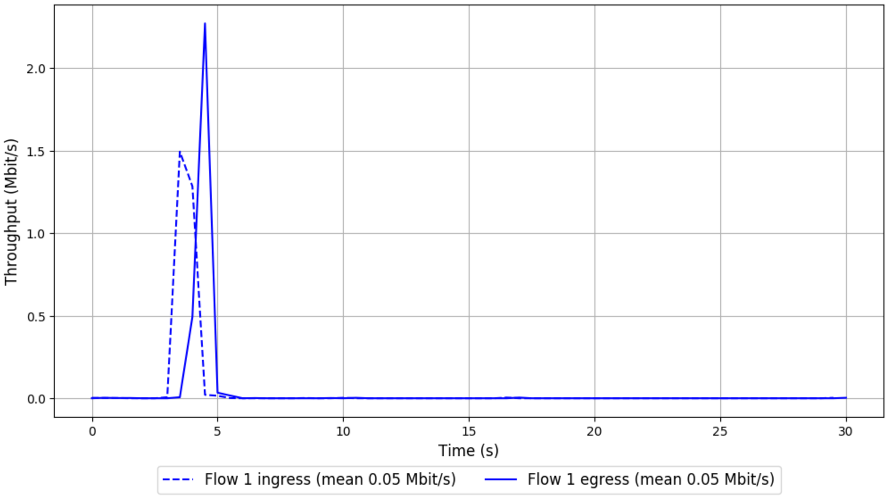
Run 8: Report of WebRTC media — Data Link

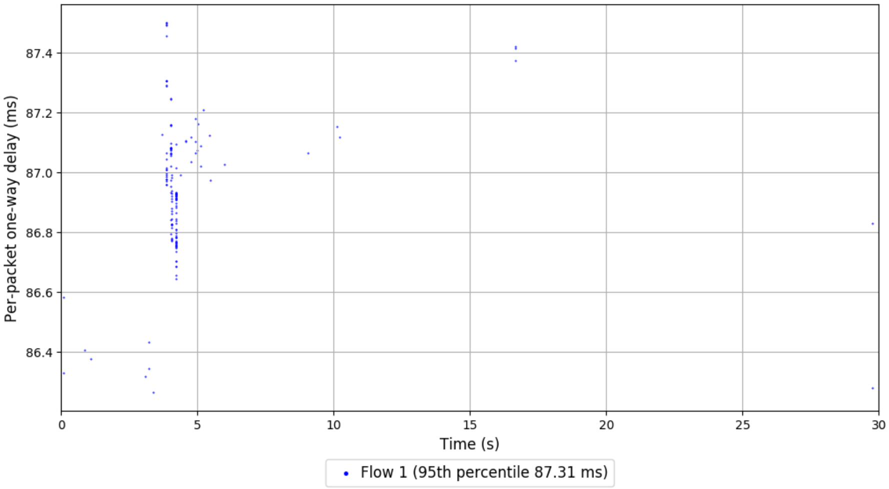




```
Run 9: Statistics of WebRTC media

Start at: 2018-05-24 02:32:29
End at: 2018-05-24 02:32:59
Local clock offset: 0.818 ms
Remote clock offset: 0.649 ms

# Below is generated by plot.py at 2018-05-24 04:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.306 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 87.306 ms
Loss rate: 0.00%
```

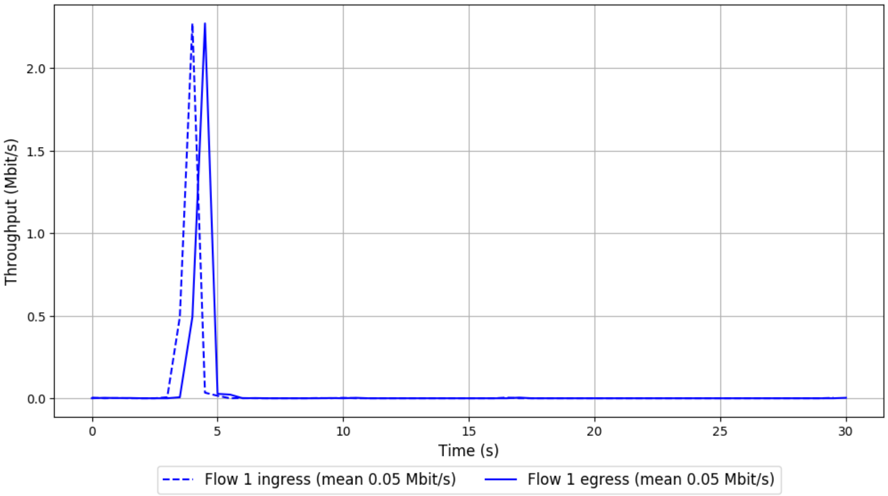
Run 9: Report of WebRTC media — Data Link



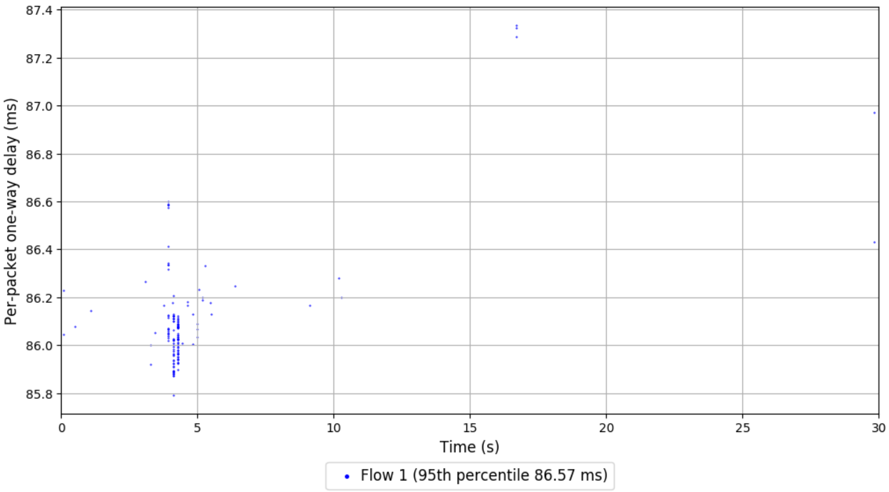


```
Run 10: Statistics of WebRTC media

Start at: 2018-05-24 02:53:29
End at: 2018-05-24 02:53:59
Local clock offset: 1.354 ms
Remote clock offset: 0.753 ms

# Below is generated by plot.py at 2018-05-24 04:38:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.574 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 86.574 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
0
5
10
15
20
25
30
Time (s)
Flow 1 ingress (mean 0.05 Mbit/s)
Flow 1 egress (mean 0.05 Mbit/s)



Per-packet one-way delay (ms)
85.8
86.0
86.2
86.4
86.6
86.8
87.0
87.2
87.4
0
5
10
15
20
25
30
Time (s)
Flow 1 (95th percentile 86.57 ms)