Pantheon Report

Generated at 2018-05-25 05:08:40 (UTC).

Data path: China Ethernet (*remote*) →AWS Korea Ethernet (*local*).

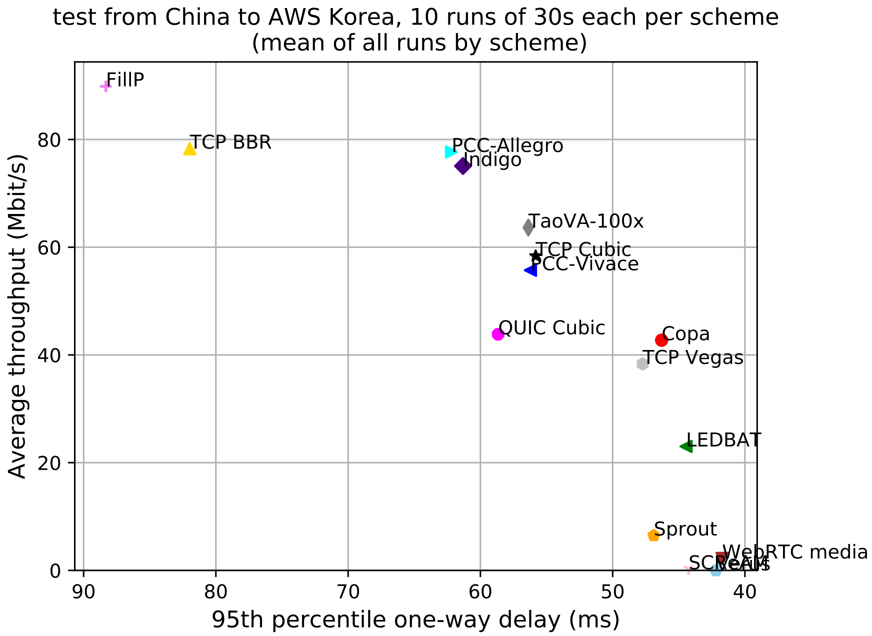
Repeated the test of 16 congestion control schemes 10 times.

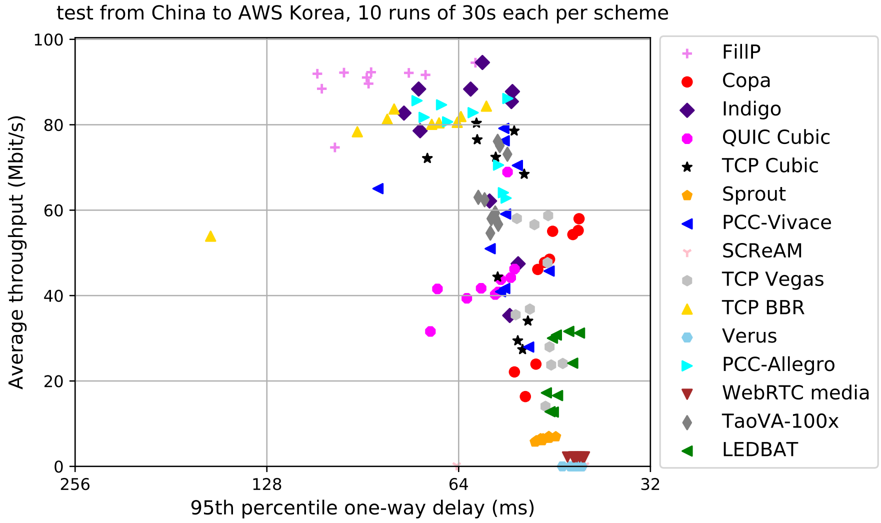
Each test lasted for 30 seconds running 1 flow.

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

NTP offsets were measured against `ntp.nict.jp` 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 China to AWS Korea, 10 runs of 30s each per scheme
(mean of all runs by scheme)
Average throughput (Mbit/s)
95th percentile one-way delay (ms)
0
20
40
60
80
90
80
70
60
50
40
FillP
TCP BBR
PCC-Allegro
Indigo
TaoVA-100x
TCP Cubic
PCC-Vivace
QUIC Cubic
Copa
TCP Vegas
LEDBAT
Sprout
WebRTC media
SCReAM
Verus


test from China to AWS Korea, 10 runs of 30s each per scheme
Average throughput (Mbit/s)
95th percentile one-way delay (ms)
0
20
40
60
80
100
256
128
64
32
FillP
Copa
Indigo
QUIC Cubic
TCP Cubic
Sprout
PCC-Vivace
SCReAM
TCP Vegas
TCP BBR
Verus
PCC-Allegro
WebRTC media
TaoVA-100x
LEDBAT

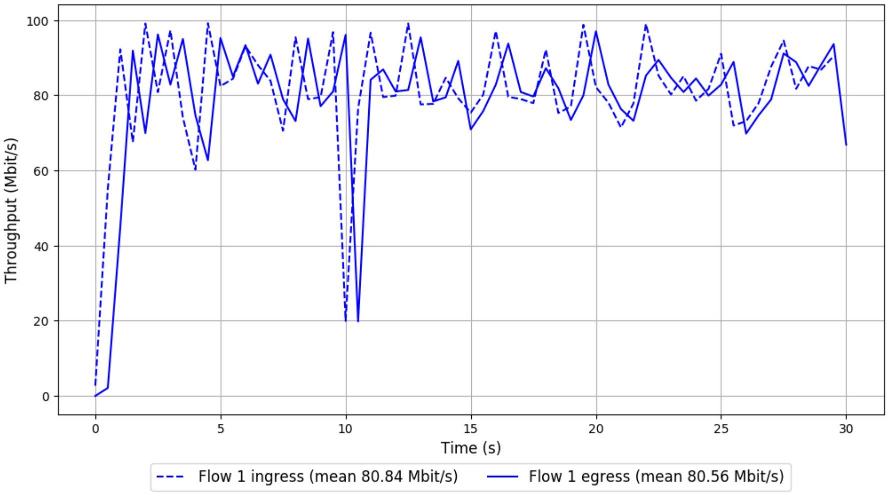
		mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
scheme	# runs	flow 1	flow 1	flow 1
TCP BBR	9	78.29	81.97	1.27
Copa	10	42.74	46.30	0.44
TCP Cubic	10	58.36	55.82	0.46
FillP	10	89.86	88.32	2.38
Indigo	10	75.08	61.32	0.73
LEDBAT	9	23.01	44.45	0.60
PCC-Allegro	9	77.68	62.18	0.62
PCC-Expr	0	N/A	N/A	N/A
QUIC Cubic	10	43.84	58.66	0.74
SCReAM	9	0.21	44.26	0.37
Sprout	10	6.48	46.89	0.39
TaoVA-100x	10	63.65	56.37	1.03
TCP Vegas	10	38.33	47.73	0.42
Verus	10	0.00	42.19	0.00
PCC-Vivace	10	55.72	56.22	0.72
WebRTC media	10	2.21	41.73	0.47

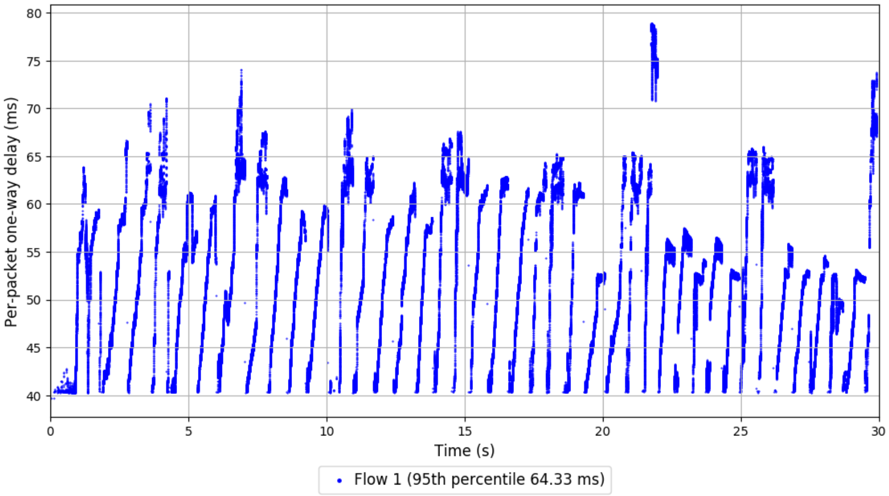
```
Run 1: Statistics of TCP BBR

Start at: 2018-05-25 01:43:46
End at: 2018-05-25 01:44:16
Local clock offset: -0.576 ms
Remote clock offset: 0.824 ms

# Below is generated by plot.py at 2018-05-25 04:56:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 64.326 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 64.326 ms
Loss rate: 0.73%
```

Run 1: Report of TCP BBR — Data Link



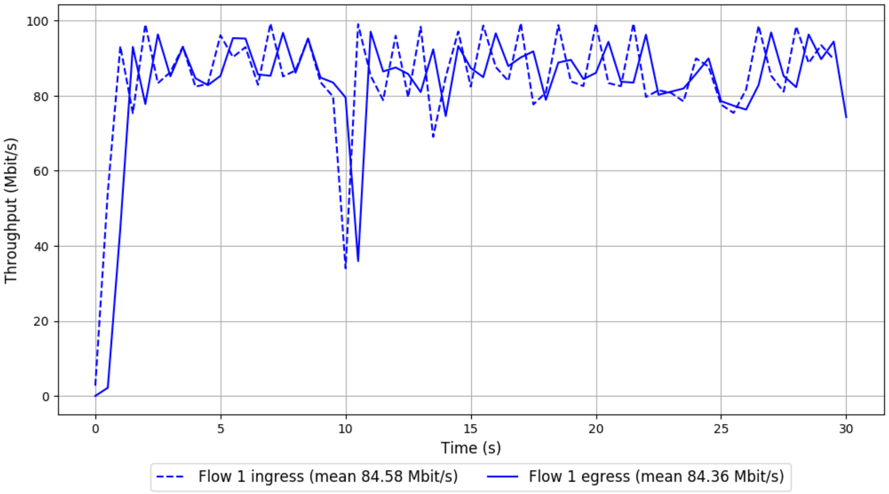


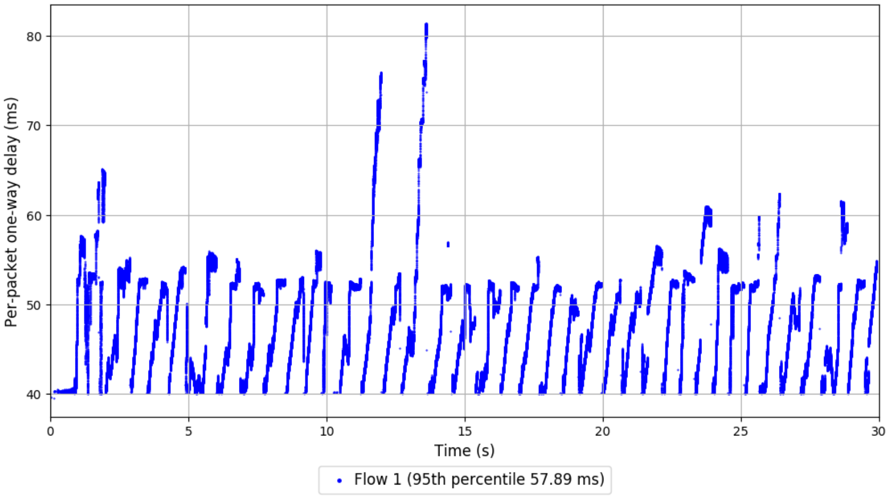
```
Run 2: Statistics of TCP BBR

Start at: 2018-05-25 02:04:28
End at: 2018-05-25 02:04:58
Local clock offset: 0.171 ms
Remote clock offset: 1.169 ms

# Below is generated by plot.py at 2018-05-25 04:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.36 Mbit/s
95th percentile per-packet one-way delay: 57.892 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 84.36 Mbit/s
95th percentile per-packet one-way delay: 57.892 ms
Loss rate: 0.62%
```

Run 2: Report of TCP BBR — Data Link



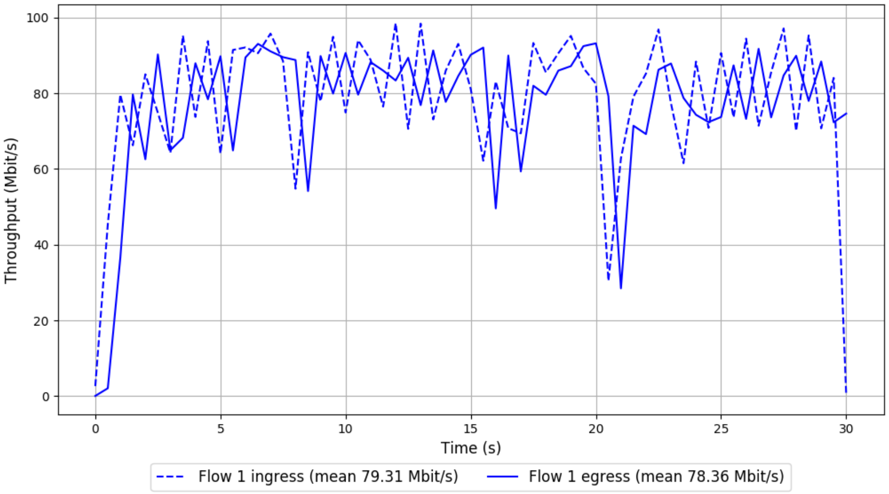


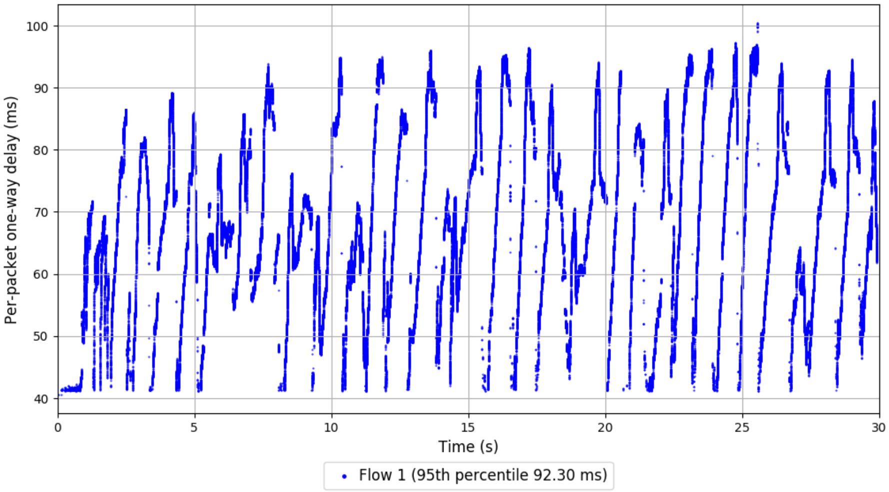
```
Run 3: Statistics of TCP BBR

Start at: 2018-05-25 02:25:06
End at: 2018-05-25 02:25:36
Local clock offset: 1.132 ms
Remote clock offset: 3.388 ms

# Below is generated by plot.py at 2018-05-25 04:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.36 Mbit/s
95th percentile per-packet one-way delay: 92.300 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 78.36 Mbit/s
95th percentile per-packet one-way delay: 92.300 ms
Loss rate: 1.59%
```

Run 3: Report of TCP BBR — Data Link



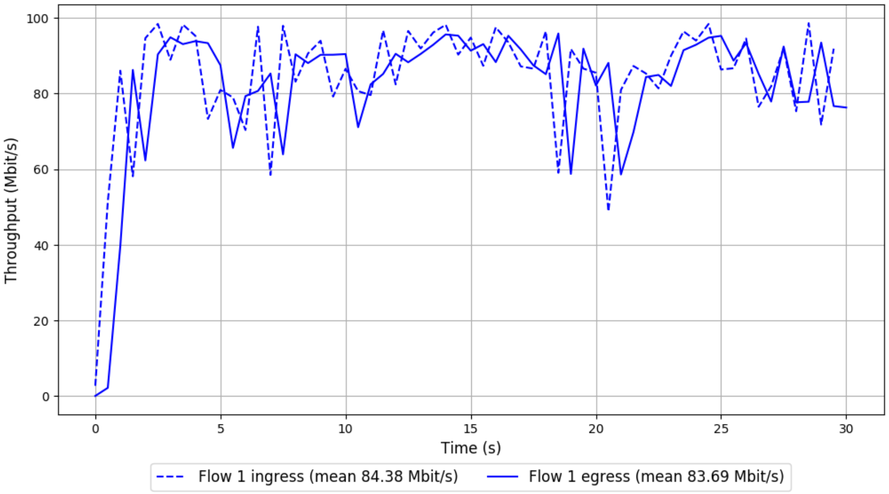


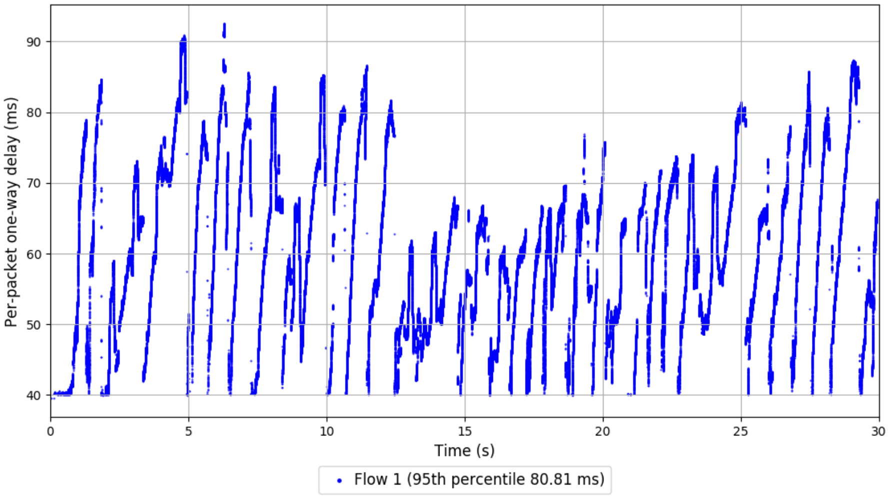
```
Run 4: Statistics of TCP BBR

Start at: 2018-05-25 02:45:43
End at: 2018-05-25 02:46:13
Local clock offset: 2.607 ms
Remote clock offset: 4.901 ms

# Below is generated by plot.py at 2018-05-25 04:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.69 Mbit/s
95th percentile per-packet one-way delay: 80.812 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 83.69 Mbit/s
95th percentile per-packet one-way delay: 80.812 ms
Loss rate: 1.18%
```

Run 4: Report of TCP BBR — Data Link



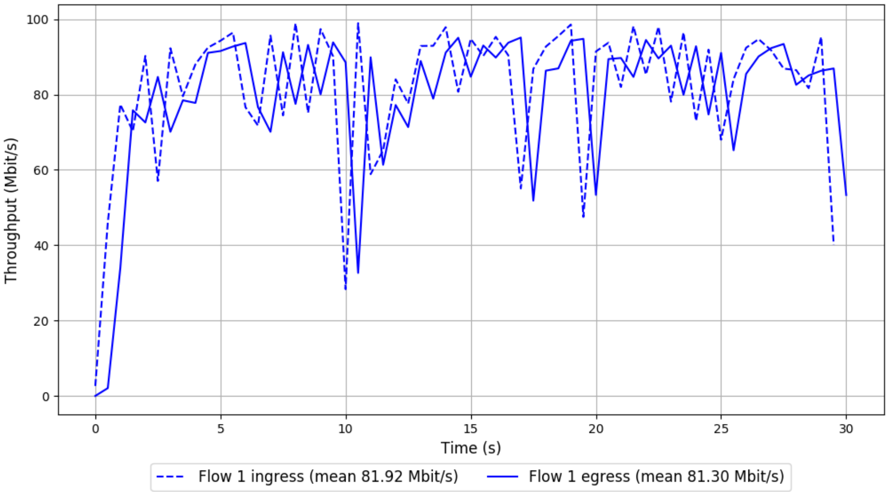


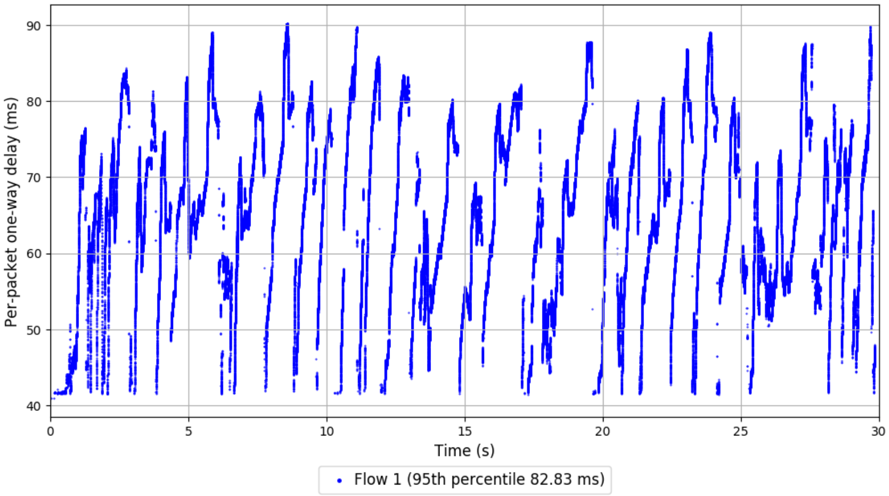
```
Run 5: Statistics of TCP BBR

Start at: 2018-05-25 03:06:24
End at: 2018-05-25 03:06:54
Local clock offset: 4.251 ms
Remote clock offset: 6.079 ms

# Below is generated by plot.py at 2018-05-25 04:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.30 Mbit/s
95th percentile per-packet one-way delay: 82.834 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 81.30 Mbit/s
95th percentile per-packet one-way delay: 82.834 ms
Loss rate: 1.11%
```

Run 5: Report of TCP BBR — Data Link





Run 6: Statistics of TCP BBR

/home/ubuntu/pantheon/data/2018-05-25T01-23-China-to-AWS-Korea-10-runs/bbr_stats_run6.log do

Run 6: Report of TCP BBR — Data Link

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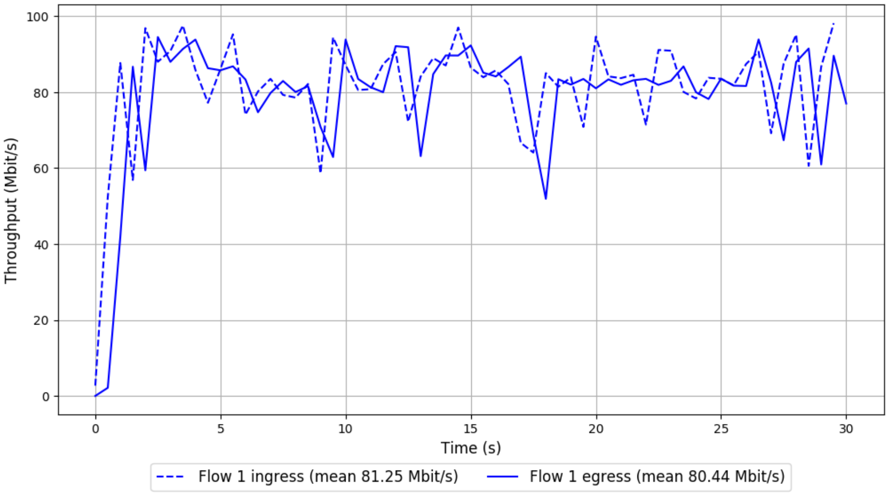
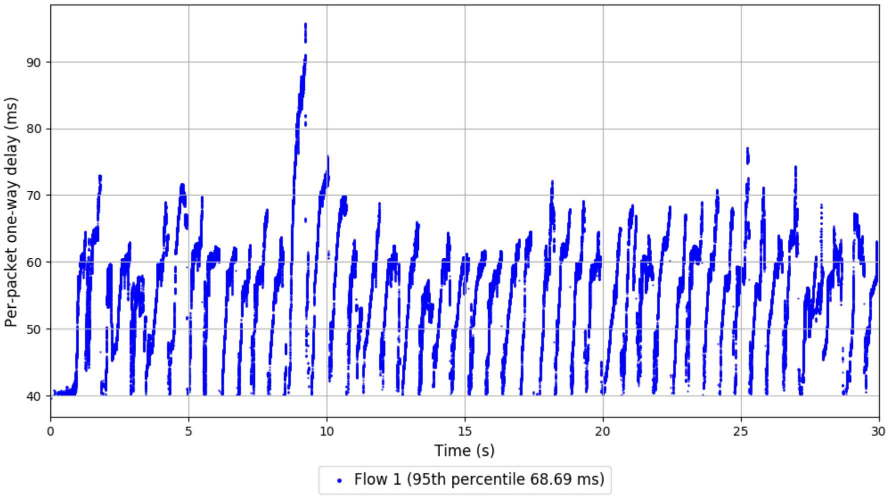
```
Run 7: Statistics of TCP BBR

Start at: 2018-05-25 03:48:44
End at: 2018-05-25 03:49:14
Local clock offset: 2.263 ms
Remote clock offset: 9.198 ms

# Below is generated by plot.py at 2018-05-25 04:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.44 Mbit/s
95th percentile per-packet one-way delay: 68.693 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 80.44 Mbit/s
95th percentile per-packet one-way delay: 68.693 ms
Loss rate: 1.38%
```

Run 7: Report of TCP BBR — Data Link



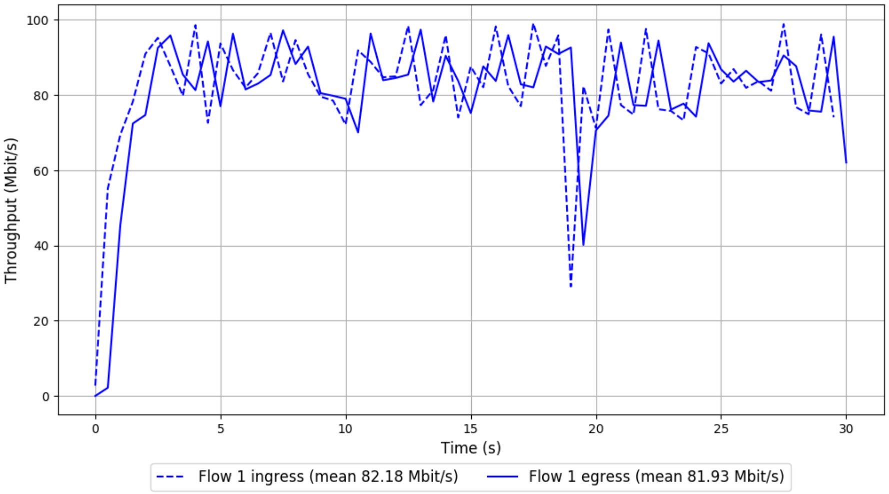


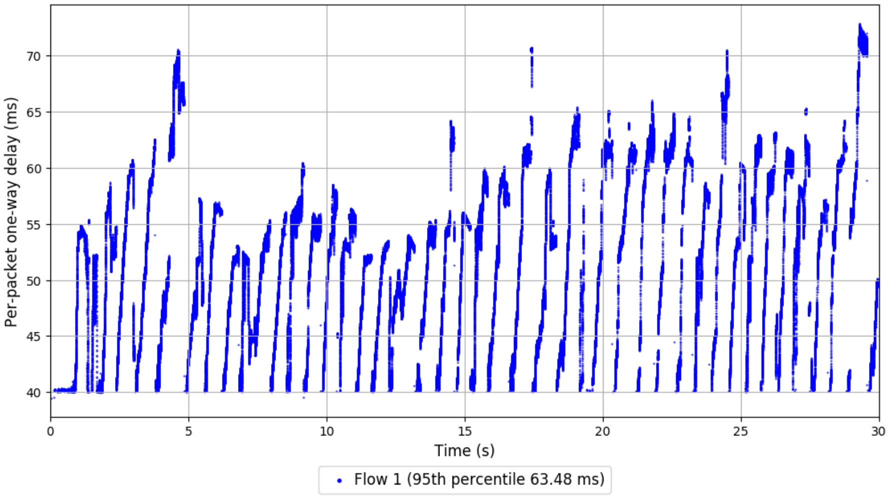
```
Run 8: Statistics of TCP BBR

Start at: 2018-05-25 04:10:24
End at: 2018-05-25 04:10:54
Local clock offset: 2.136 ms
Remote clock offset: 10.691 ms

# Below is generated by plot.py at 2018-05-25 04:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.93 Mbit/s
95th percentile per-packet one-way delay: 63.484 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 81.93 Mbit/s
95th percentile per-packet one-way delay: 63.484 ms
Loss rate: 0.66%
```

Run 8: Report of TCP BBR — Data Link



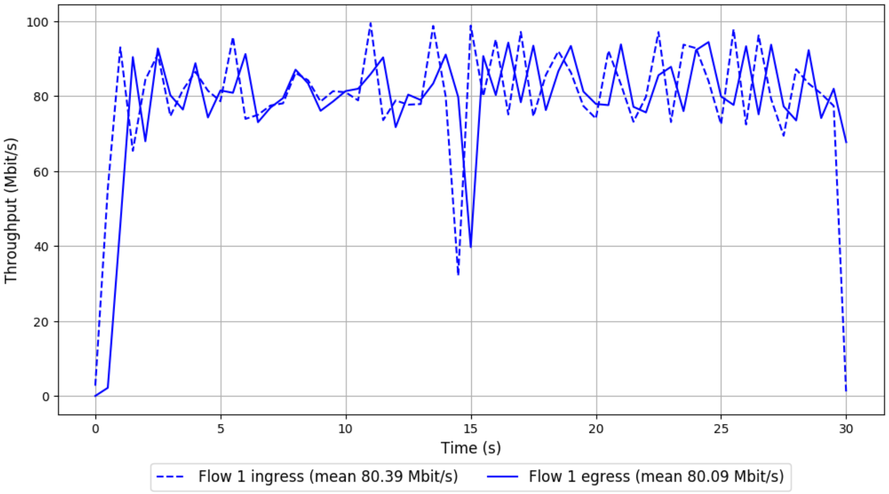


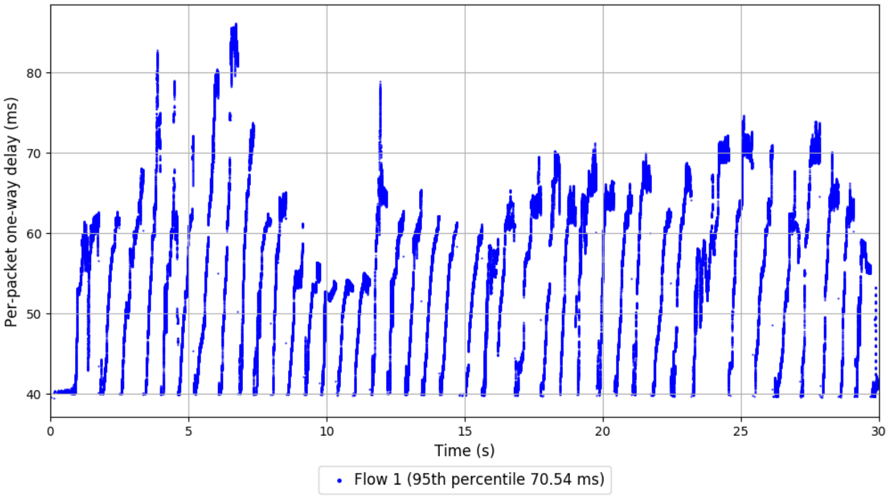
```
Run 9: Statistics of TCP BBR

Start at: 2018-05-25 04:31:04
End at: 2018-05-25 04:31:34
Local clock offset: 2.38 ms
Remote clock offset: 4.057 ms

# Below is generated by plot.py at 2018-05-25 04:56:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.09 Mbit/s
95th percentile per-packet one-way delay: 70.539 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 80.09 Mbit/s
95th percentile per-packet one-way delay: 70.539 ms
Loss rate: 0.71%
```

Run 9: Report of TCP BBR — Data Link



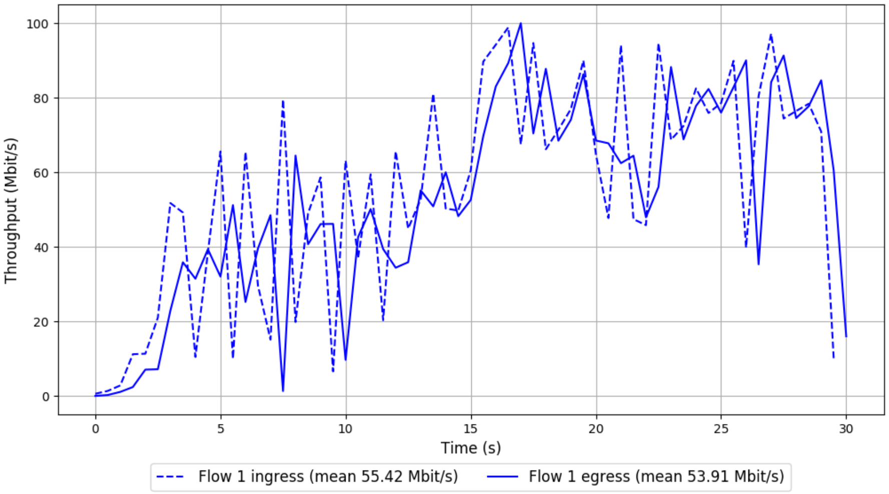


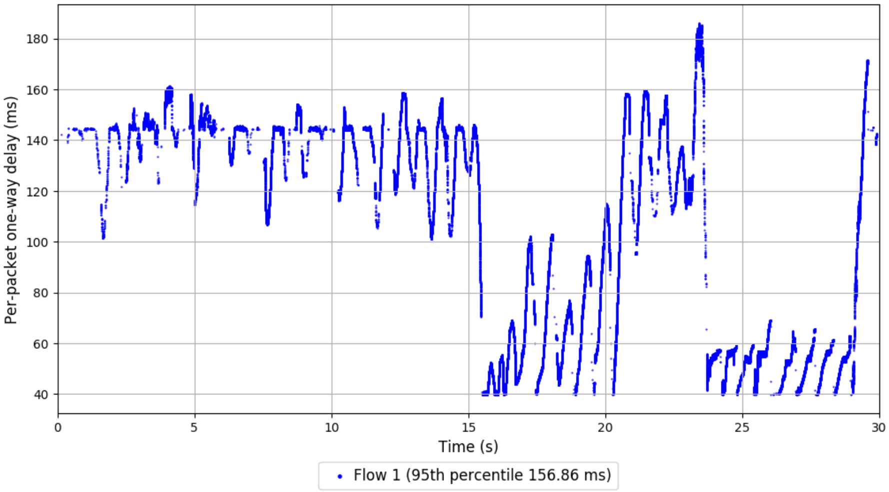
```
Run 10: Statistics of TCP BBR

Start at: 2018-05-25 04:52:40
End at: 2018-05-25 04:53:10
Local clock offset: 2.443 ms
Remote clock offset: -5.048 ms

# Below is generated by plot.py at 2018-05-25 04:57:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.91 Mbit/s
95th percentile per-packet one-way delay: 156.857 ms
Loss rate: 3.42%
-- Flow 1:
Average throughput: 53.91 Mbit/s
95th percentile per-packet one-way delay: 156.857 ms
Loss rate: 3.42%
```

Run 10: Report of TCP BBR — Data Link



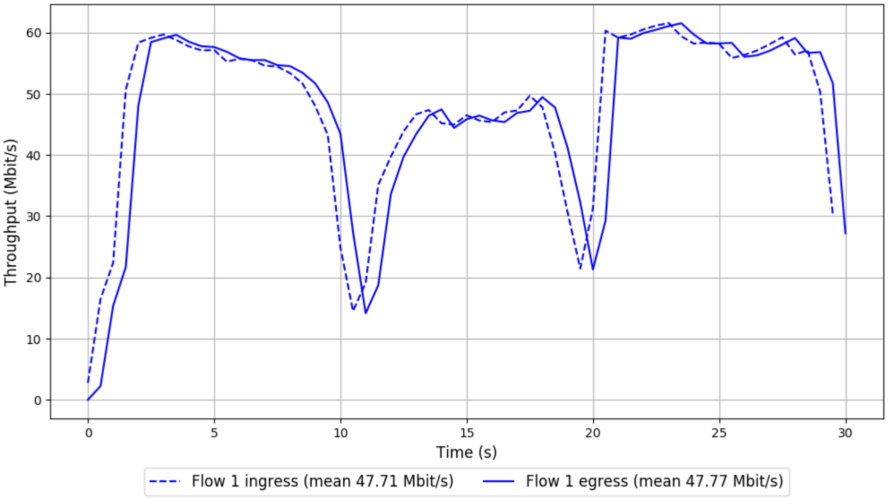


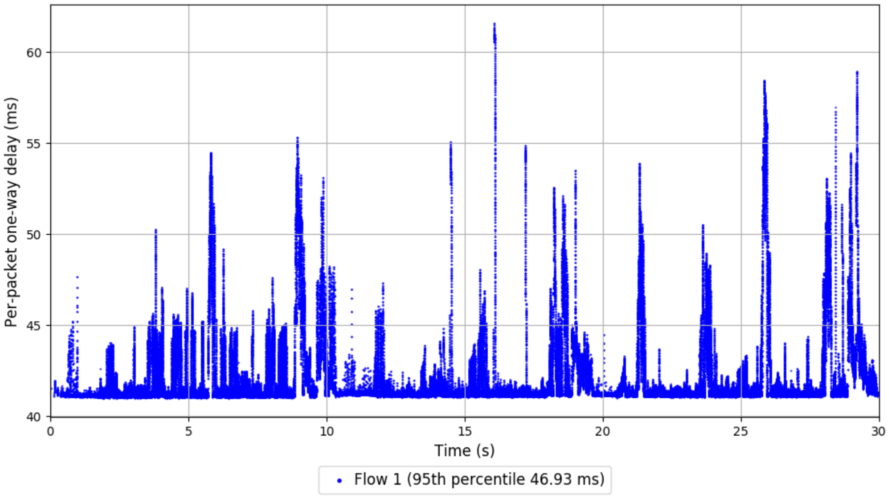
```
Run 1: Statistics of Copa

Start at: 2018-05-25 01:37:17
End at: 2018-05-25 01:37:47
Local clock offset: 0.279 ms
Remote clock offset: 0.967 ms

# Below is generated by plot.py at 2018-05-25 04:57:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.77 Mbit/s
95th percentile per-packet one-way delay: 46.926 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 47.77 Mbit/s
95th percentile per-packet one-way delay: 46.926 ms
Loss rate: 0.24%
```

Run 1: Report of Copa — Data Link



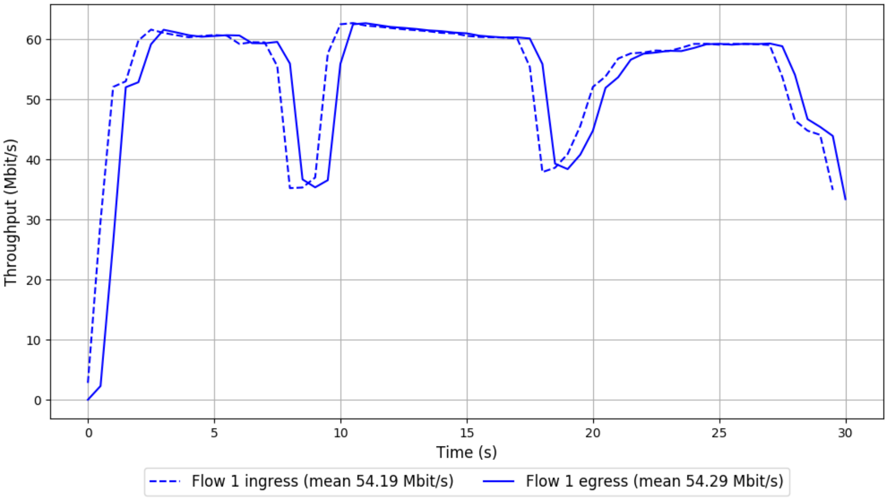


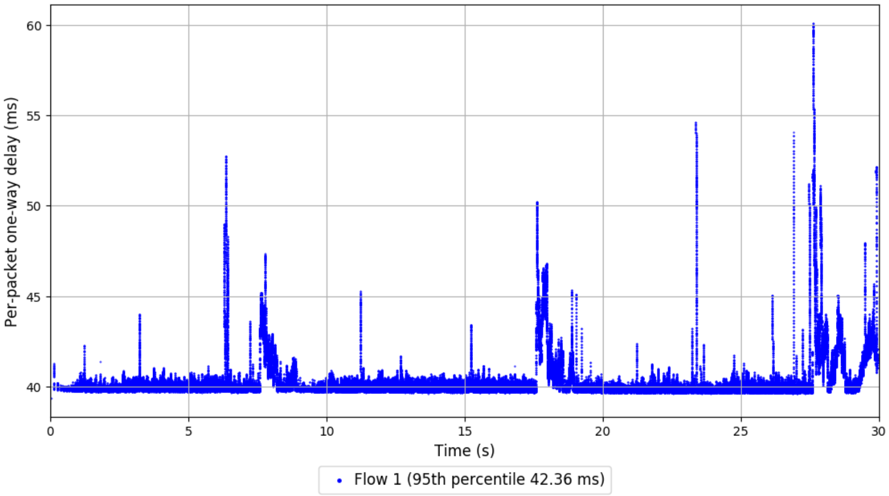
```
Run 2: Statistics of Copa

Start at: 2018-05-25 01:57:58
End at: 2018-05-25 01:58:28
Local clock offset: -1.12 ms
Remote clock offset: 1.045 ms

# Below is generated by plot.py at 2018-05-25 04:57:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.29 Mbit/s
95th percentile per-packet one-way delay: 42.356 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 54.29 Mbit/s
95th percentile per-packet one-way delay: 42.356 ms
Loss rate: 0.17%
```

Run 2: Report of Copa — Data Link



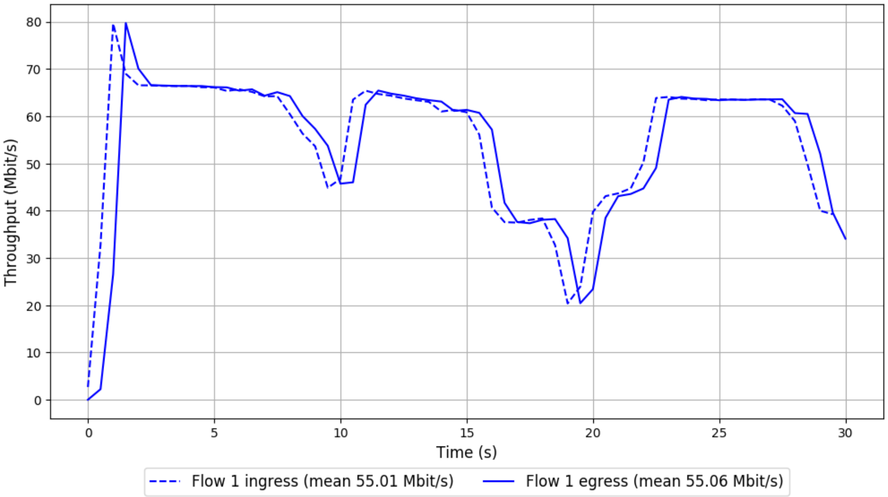


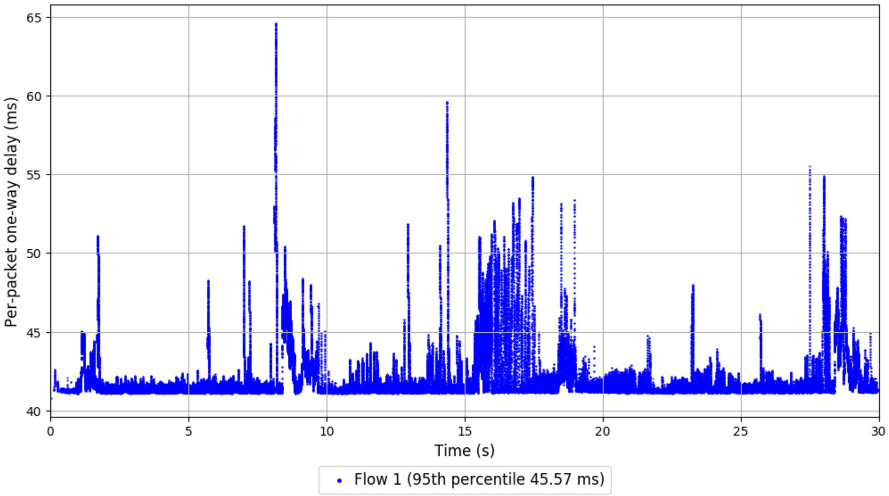
```
Run 3: Statistics of Copa

Start at: 2018-05-25 02:18:39
End at: 2018-05-25 02:19:10
Local clock offset: 0.888 ms
Remote clock offset: 2.832 ms

# Below is generated by plot.py at 2018-05-25 04:57:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.06 Mbit/s
95th percentile per-packet one-way delay: 45.566 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 55.06 Mbit/s
95th percentile per-packet one-way delay: 45.566 ms
Loss rate: 0.26%
```

Run 3: Report of Copa — Data Link



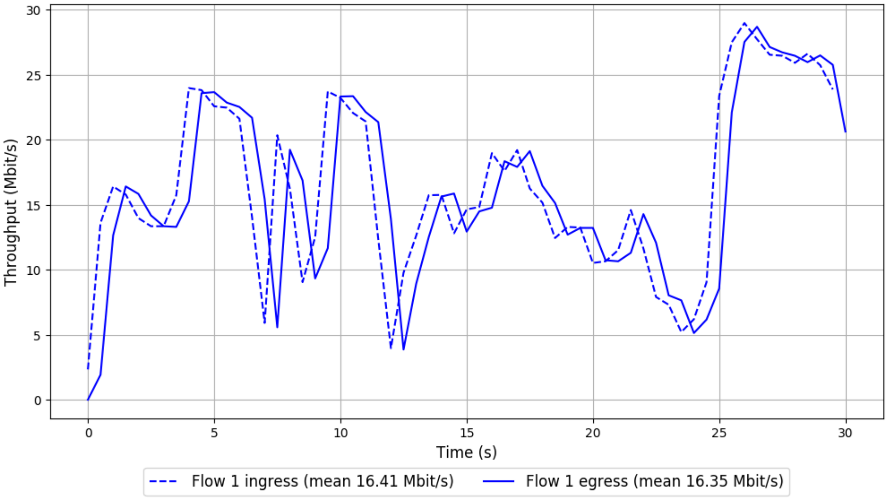


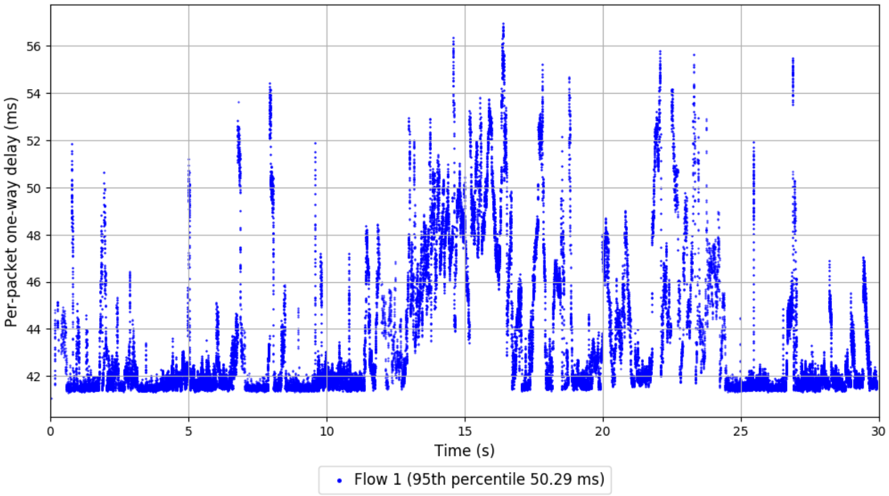
```
Run 4: Statistics of Copa

Start at: 2018-05-25 02:39:16
End at: 2018-05-25 02:39:46
Local clock offset: 2.432 ms
Remote clock offset: 4.278 ms

# Below is generated by plot.py at 2018-05-25 04:57:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 50.286 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 50.286 ms
Loss rate: 0.70%
```

Run 4: Report of Copa — Data Link



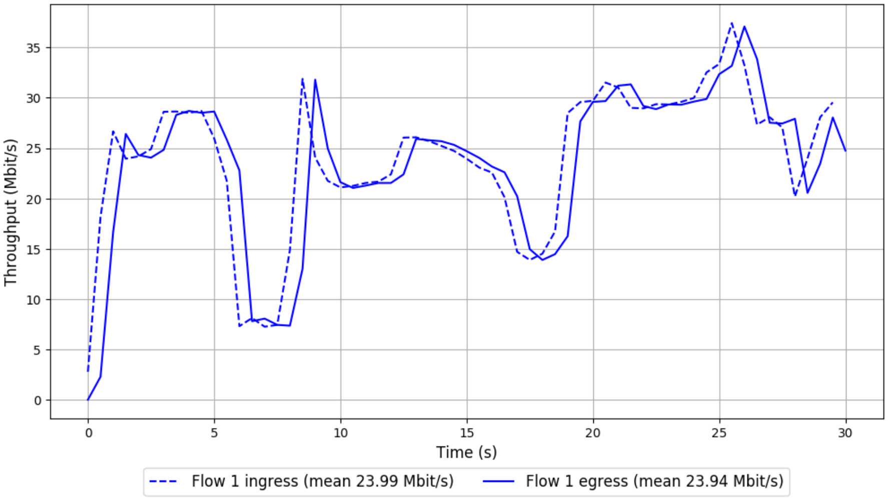


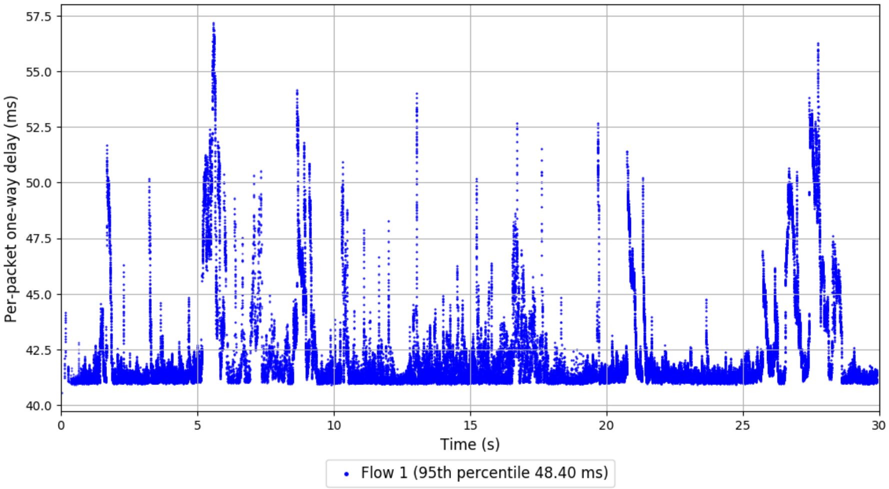
```
Run 5: Statistics of Copa

Start at: 2018-05-25 02:59:58
End at: 2018-05-25 03:00:28
Local clock offset: 3.459 ms
Remote clock offset: 5.573 ms

# Below is generated by plot.py at 2018-05-25 04:57:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.94 Mbit/s
95th percentile per-packet one-way delay: 48.402 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 23.94 Mbit/s
95th percentile per-packet one-way delay: 48.402 ms
Loss rate: 0.57%
```

Run 5: Report of Copa — Data Link



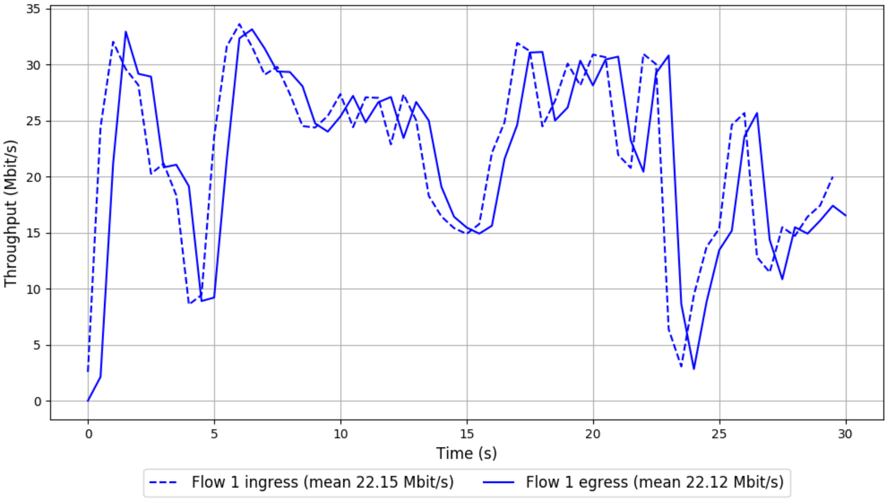


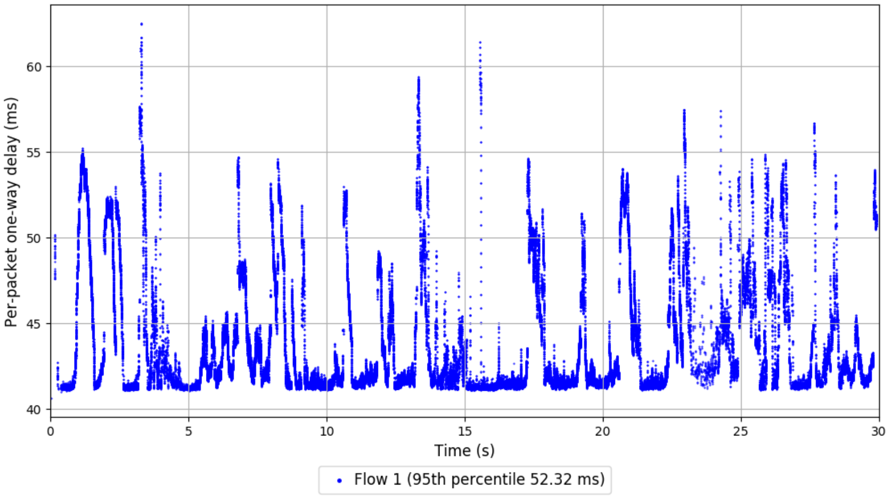
```
Run 6: Statistics of Copa

Start at: 2018-05-25 03:20:41
End at: 2018-05-25 03:21:11
Local clock offset: 4.914 ms
Remote clock offset: 7.053 ms

# Below is generated by plot.py at 2018-05-25 04:57:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.12 Mbit/s
95th percentile per-packet one-way delay: 52.316 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 22.12 Mbit/s
95th percentile per-packet one-way delay: 52.316 ms
Loss rate: 0.52%
```

Run 6: Report of Copa — Data Link



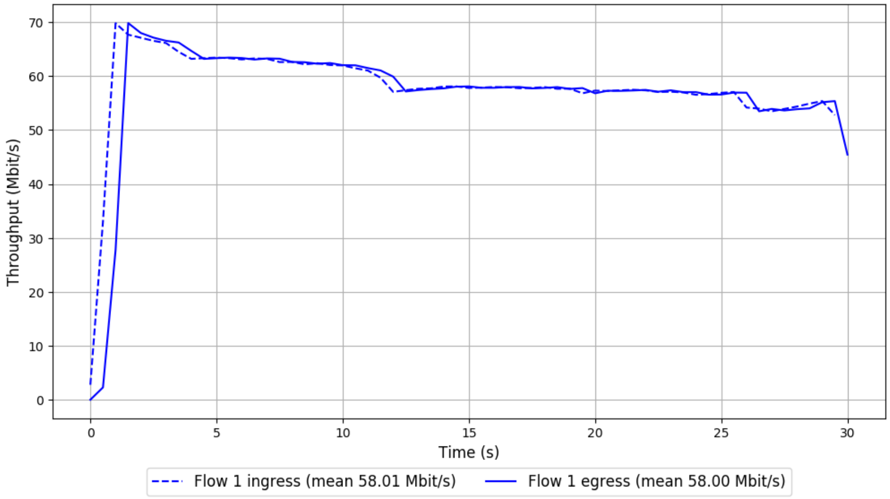


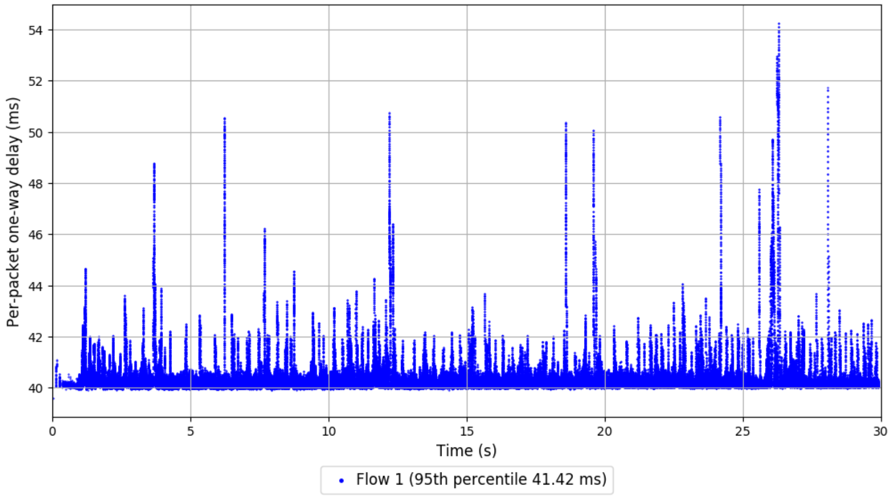
```
Run 7: Statistics of Copa

Start at: 2018-05-25 03:42:10
End at: 2018-05-25 03:42:40
Local clock offset: 2.38 ms
Remote clock offset: 8.827 ms

# Below is generated by plot.py at 2018-05-25 04:57:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 41.417 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 58.00 Mbit/s
95th percentile per-packet one-way delay: 41.417 ms
Loss rate: 0.37%
```

Run 7: Report of Copa — Data Link



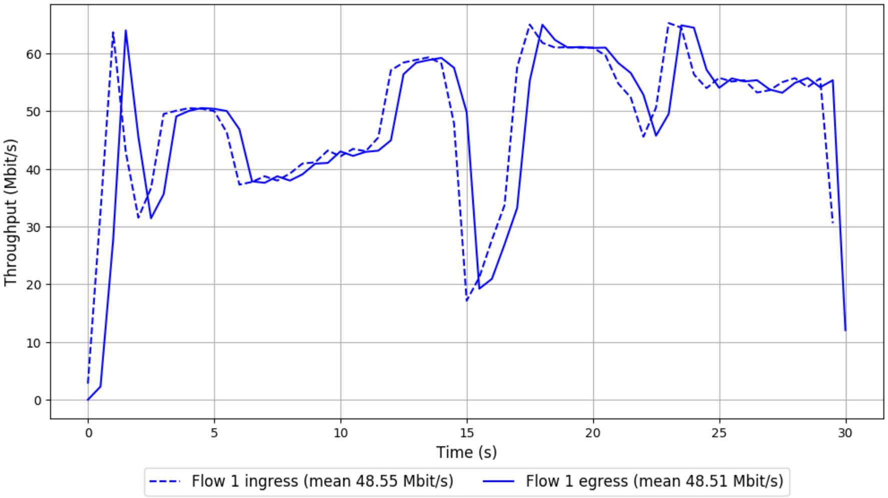


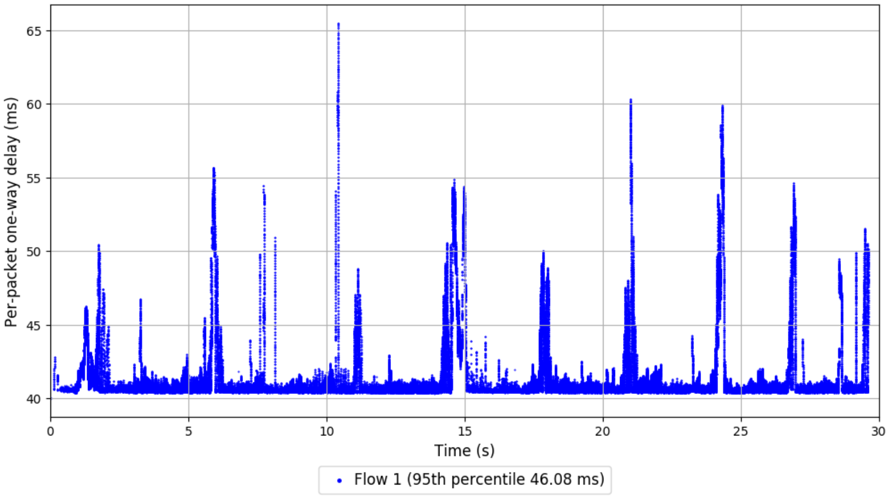
```
Run 8: Statistics of Copa

Start at: 2018-05-25 04:02:58
End at: 2018-05-25 04:03:28
Local clock offset: 2.358 ms
Remote clock offset: 10.227 ms

# Below is generated by plot.py at 2018-05-25 04:58:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 46.078 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 48.51 Mbit/s
95th percentile per-packet one-way delay: 46.078 ms
Loss rate: 0.82%
```

Run 8: Report of Copa — Data Link



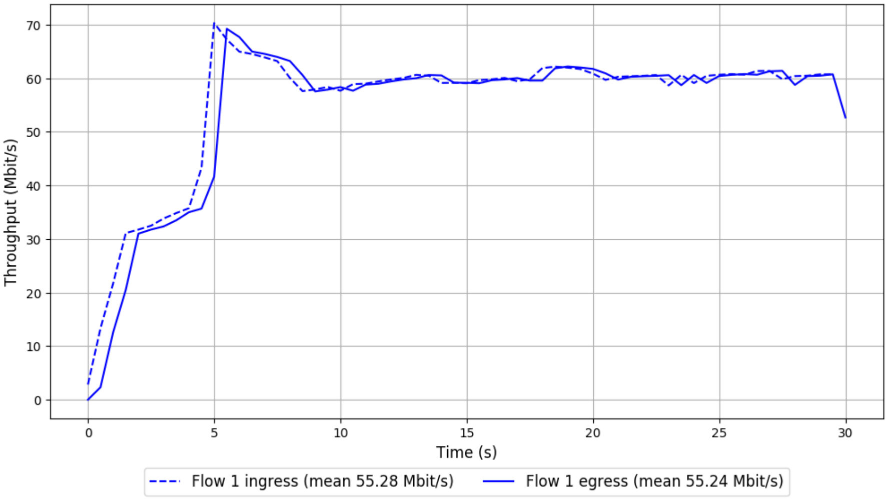


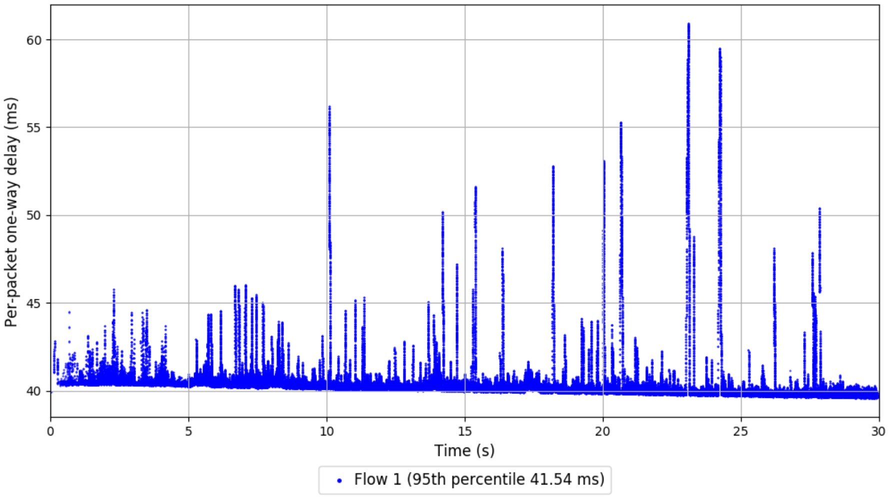
```
Run 9: Statistics of Copa

Start at: 2018-05-25 04:24:34
End at: 2018-05-25 04:25:04
Local clock offset: 2.306 ms
Remote clock offset: 11.689 ms

# Below is generated by plot.py at 2018-05-25 04:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.24 Mbit/s
95th percentile per-packet one-way delay: 41.544 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 55.24 Mbit/s
95th percentile per-packet one-way delay: 41.544 ms
Loss rate: 0.42%
```

Run 9: Report of Copa — Data Link



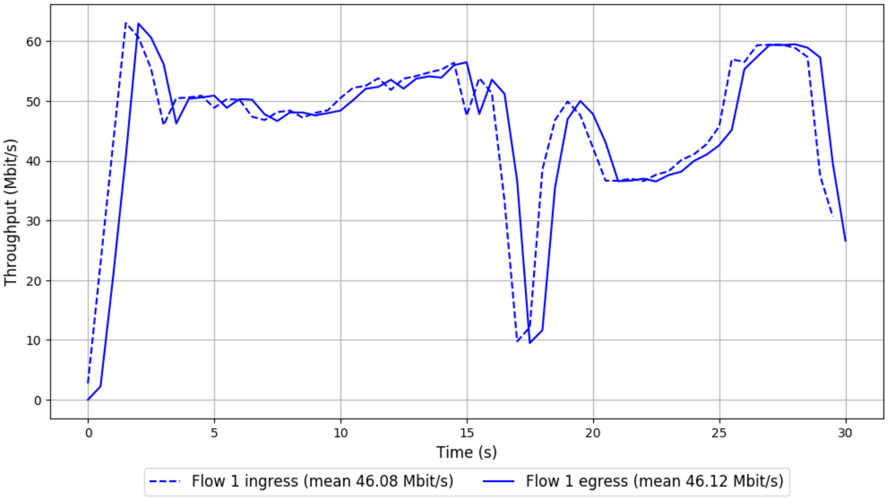


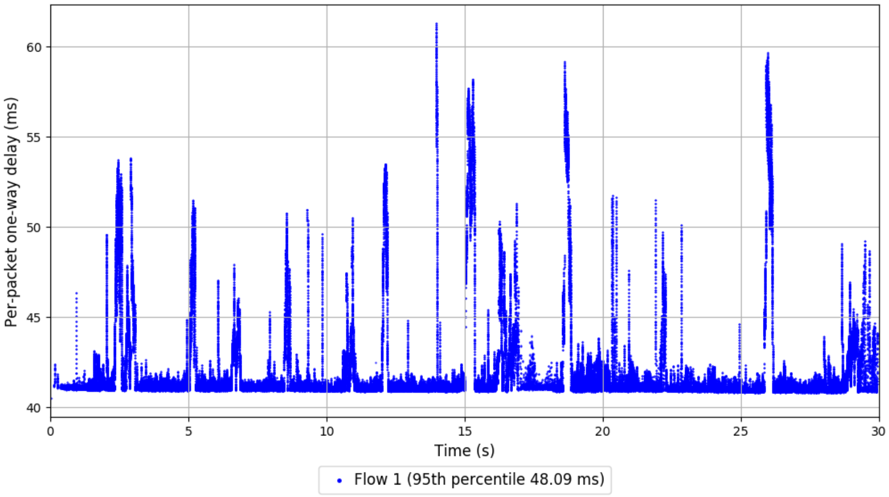
```
Run 10: Statistics of Copa

Start at: 2018-05-25 04:45:48
End at: 2018-05-25 04:46:18
Local clock offset: 2.52 ms
Remote clock offset: -3.171 ms

# Below is generated by plot.py at 2018-05-25 04:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 48.085 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 46.12 Mbit/s
95th percentile per-packet one-way delay: 48.085 ms
Loss rate: 0.28%
```

Run 10: Report of Copa — Data Link



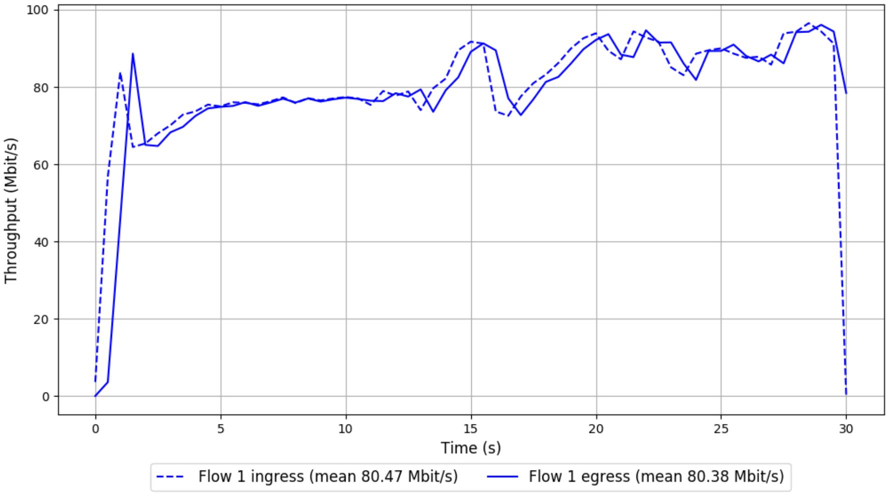


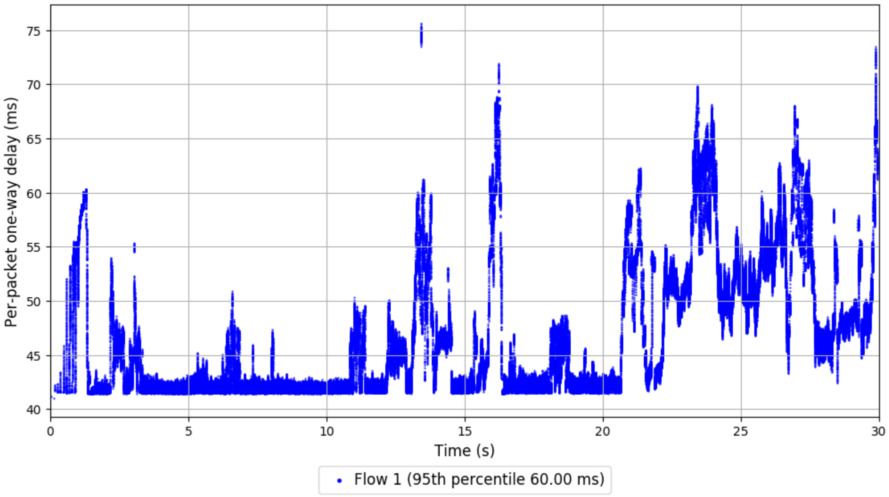
```
Run 1: Statistics of TCP Cubic

Start at: 2018-05-25 01:39:54
End at: 2018-05-25 01:40:24
Local clock offset: -0.045 ms
Remote clock offset: 0.914 ms

# Below is generated by plot.py at 2018-05-25 04:58:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.38 Mbit/s
95th percentile per-packet one-way delay: 60.004 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 80.38 Mbit/s
95th percentile per-packet one-way delay: 60.004 ms
Loss rate: 0.46%
```

Run 1: Report of TCP Cubic — Data Link



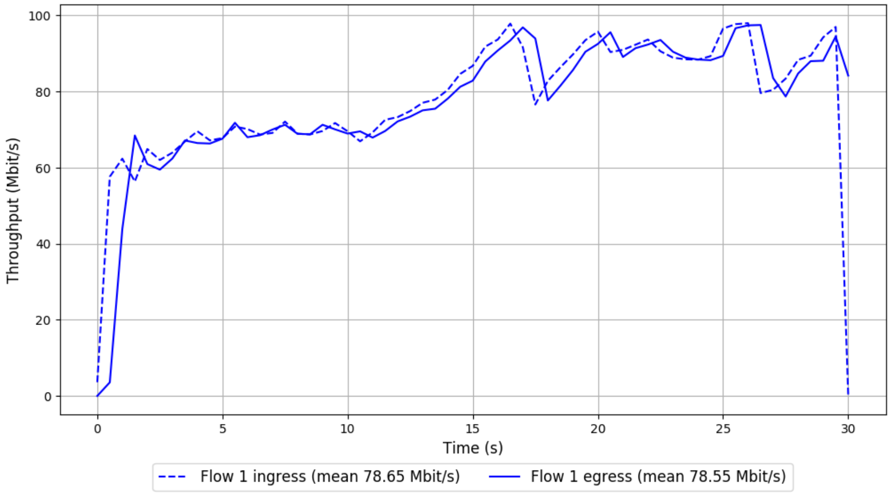


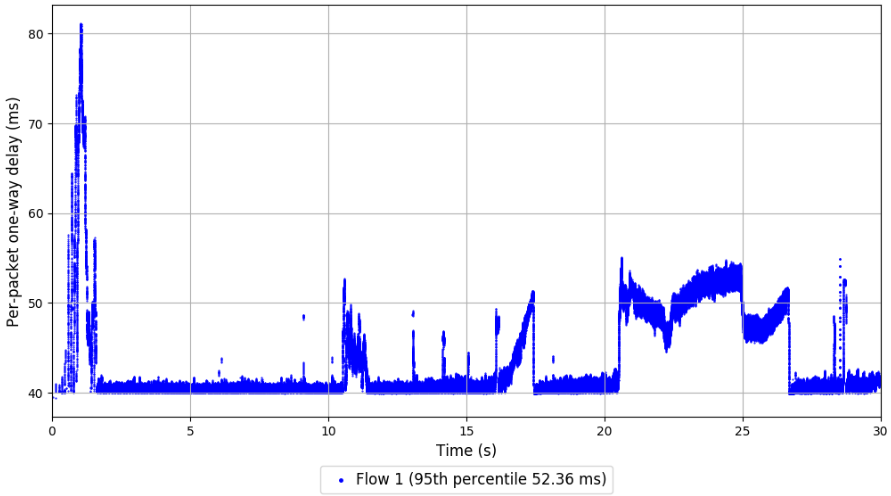
```
Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 02:00:35
End at: 2018-05-25 02:01:05
Local clock offset: -0.339 ms
Remote clock offset: 1.134 ms

# Below is generated by plot.py at 2018-05-25 04:58:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.55 Mbit/s
95th percentile per-packet one-way delay: 52.356 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 78.55 Mbit/s
95th percentile per-packet one-way delay: 52.356 ms
Loss rate: 0.47%
```

Run 2: Report of TCP Cubic — Data Link



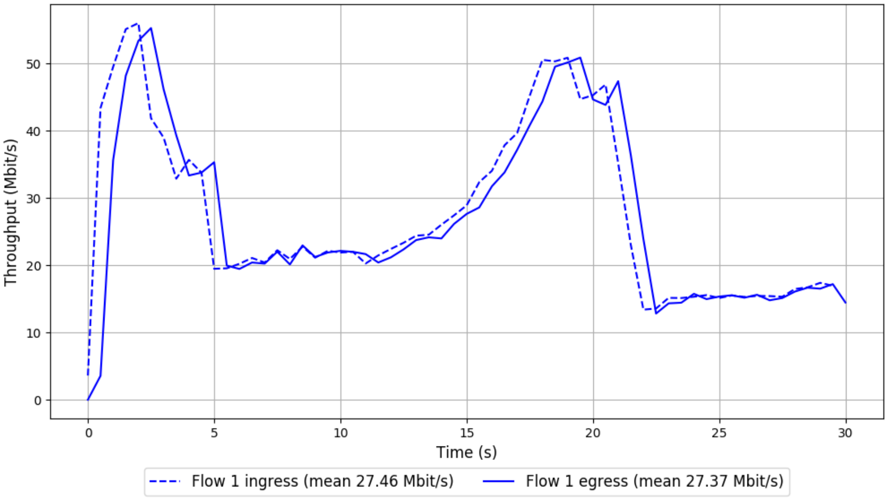


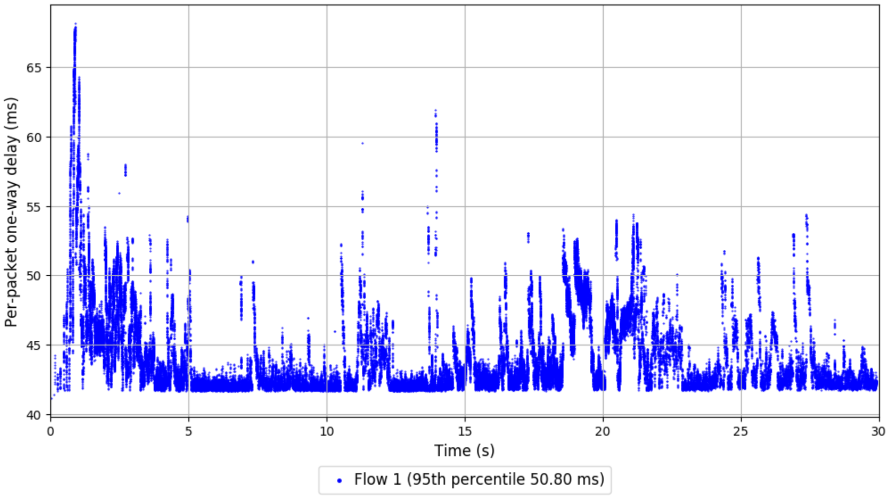
```
Run 3: Statistics of TCP Cubic

Start at: 2018-05-25 02:21:17
End at: 2018-05-25 02:21:47
Local clock offset: 1.069 ms
Remote clock offset: 2.8 ms

# Below is generated by plot.py at 2018-05-25 04:58:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 50.797 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 27.37 Mbit/s
95th percentile per-packet one-way delay: 50.797 ms
Loss rate: 0.70%
```

Run 3: Report of TCP Cubic — Data Link



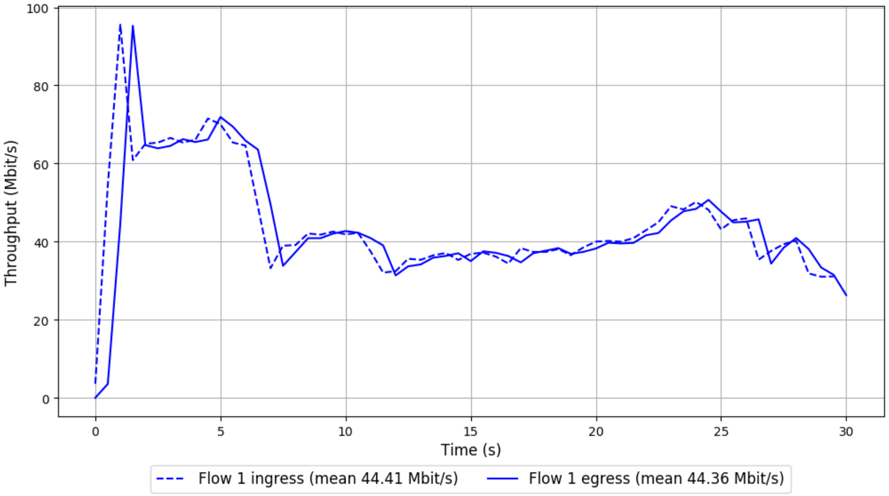


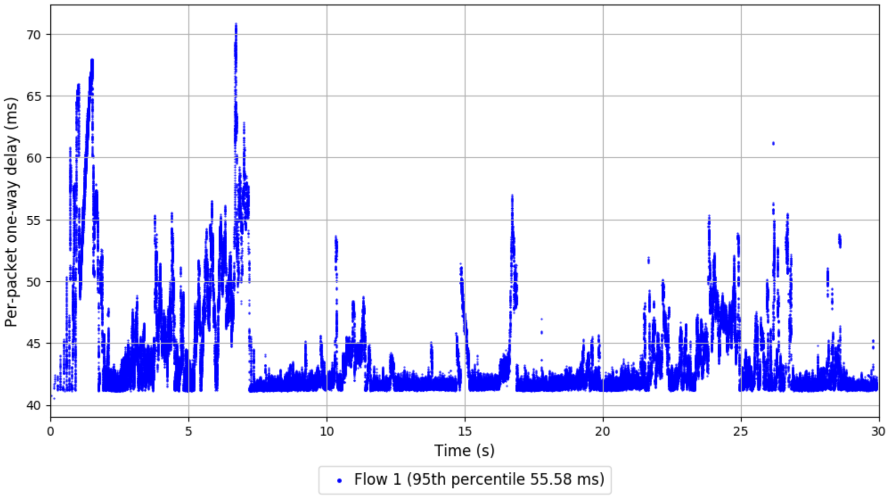
```
Run 4: Statistics of TCP Cubic

Start at: 2018-05-25 02:41:51
End at: 2018-05-25 02:42:21
Local clock offset: 2.553 ms
Remote clock offset: 4.489 ms

# Below is generated by plot.py at 2018-05-25 04:58:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.36 Mbit/s
95th percentile per-packet one-way delay: 55.578 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 44.36 Mbit/s
95th percentile per-packet one-way delay: 55.578 ms
Loss rate: 0.47%
```

Run 4: Report of TCP Cubic — Data Link



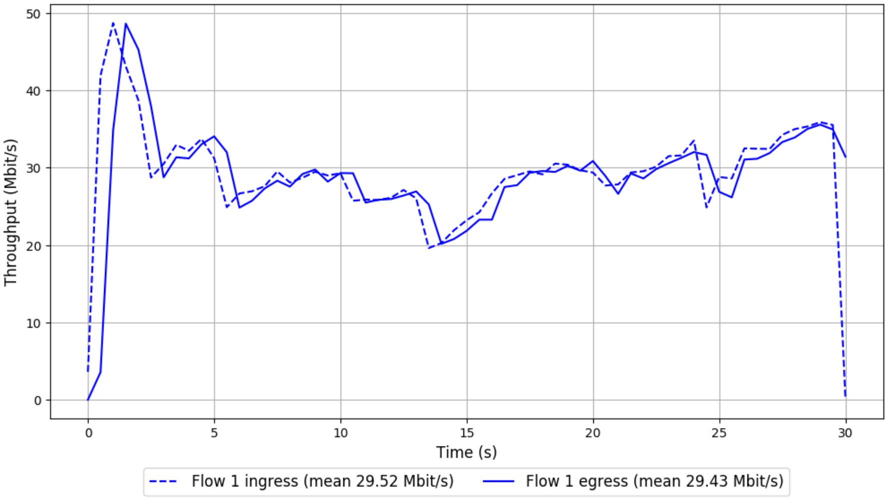


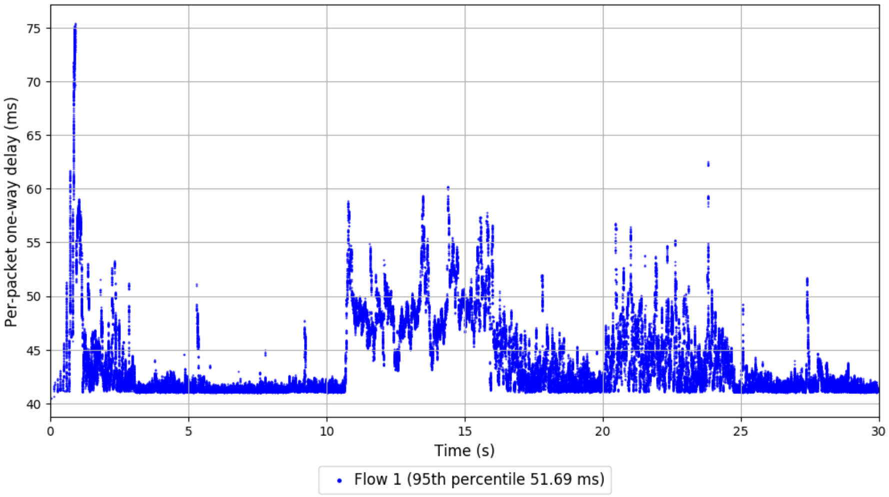
```
Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 03:02:33
End at: 2018-05-25 03:03:03
Local clock offset: 3.811 ms
Remote clock offset: 5.882 ms

# Below is generated by plot.py at 2018-05-25 04:58:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.43 Mbit/s
95th percentile per-packet one-way delay: 51.685 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 29.43 Mbit/s
95th percentile per-packet one-way delay: 51.685 ms
Loss rate: 0.65%
```

Run 5: Report of TCP Cubic — Data Link



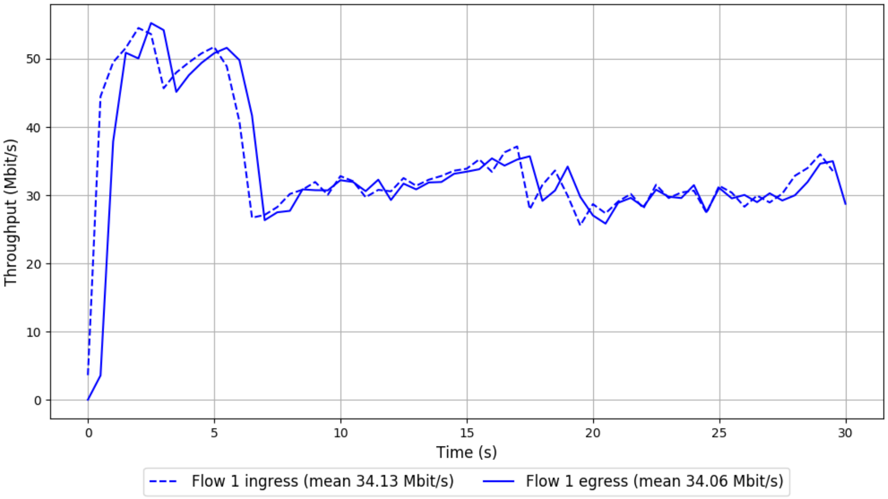


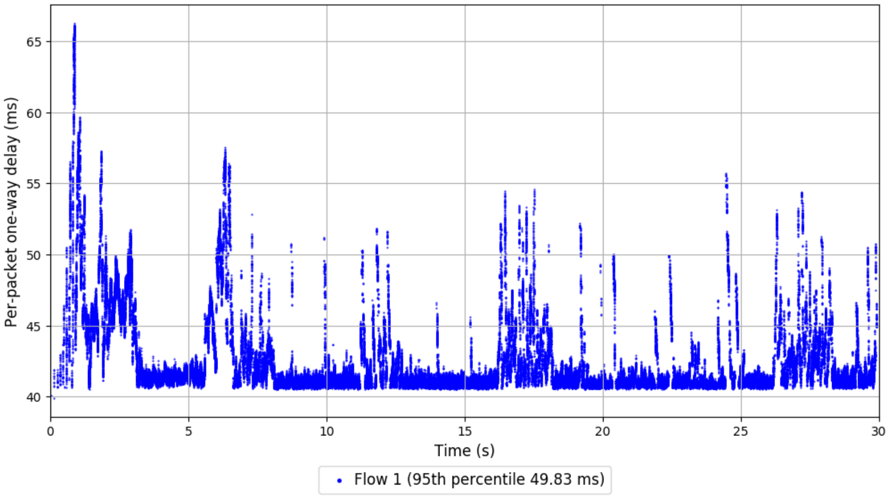
```
Run 6: Statistics of TCP Cubic

Start at: 2018-05-25 03:23:18
End at: 2018-05-25 03:23:48
Local clock offset: 5.109 ms
Remote clock offset: 7.267 ms

# Below is generated by plot.py at 2018-05-25 04:58:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 49.825 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 49.825 ms
Loss rate: 0.57%
```

Run 6: Report of TCP Cubic — Data Link



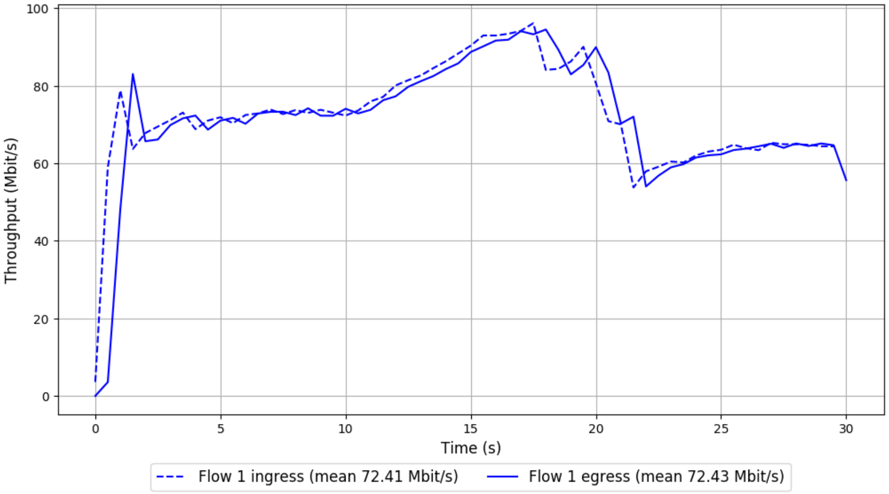


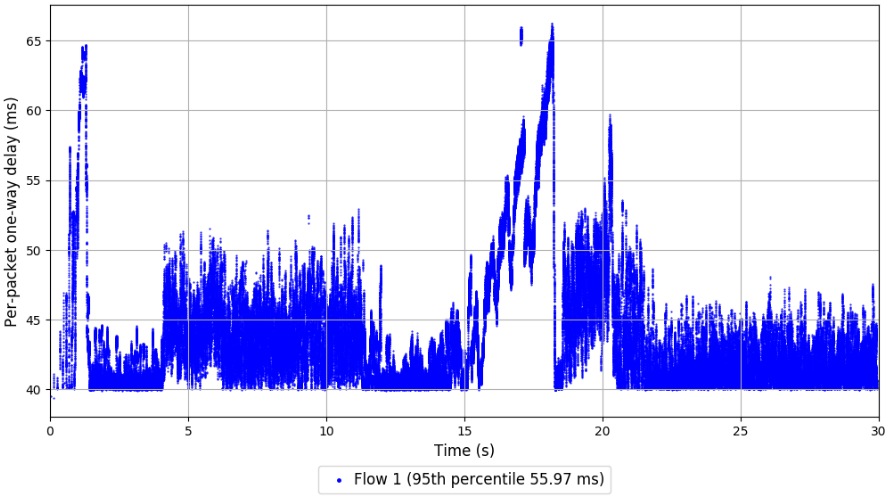
```
Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 03:44:50
End at: 2018-05-25 03:45:20
Local clock offset: 2.275 ms
Remote clock offset: 8.919 ms

# Below is generated by plot.py at 2018-05-25 04:59:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.43 Mbit/s
95th percentile per-packet one-way delay: 55.974 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 72.43 Mbit/s
95th percentile per-packet one-way delay: 55.974 ms
Loss rate: 0.33%
```

Run 7: Report of TCP Cubic — Data Link



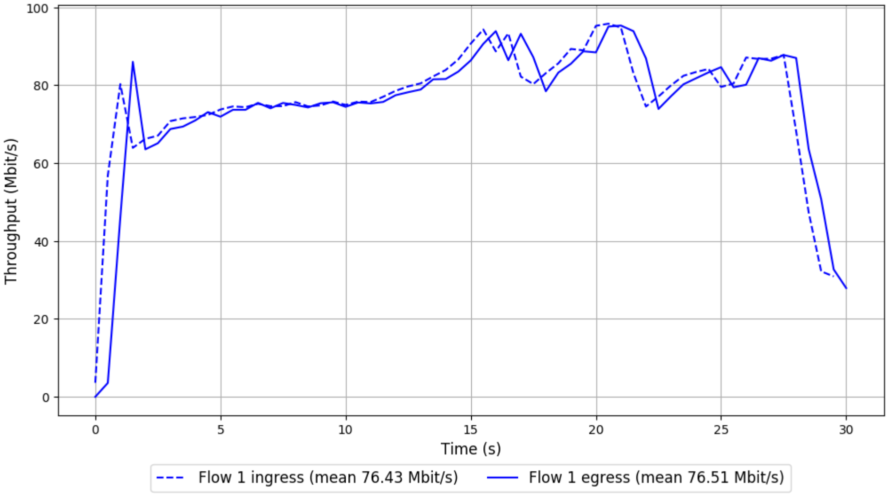


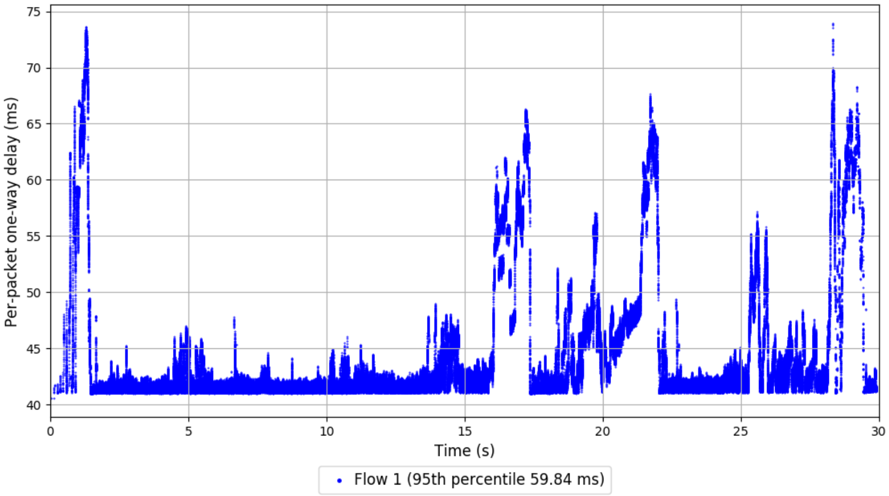
```
Run 8: Statistics of TCP Cubic

Start at: 2018-05-25 04:06:31
End at: 2018-05-25 04:07:01
Local clock offset: 2.25 ms
Remote clock offset: 10.483 ms

# Below is generated by plot.py at 2018-05-25 04:59:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.51 Mbit/s
95th percentile per-packet one-way delay: 59.842 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 76.51 Mbit/s
95th percentile per-packet one-way delay: 59.842 ms
Loss rate: 0.25%
```

Run 8: Report of TCP Cubic — Data Link



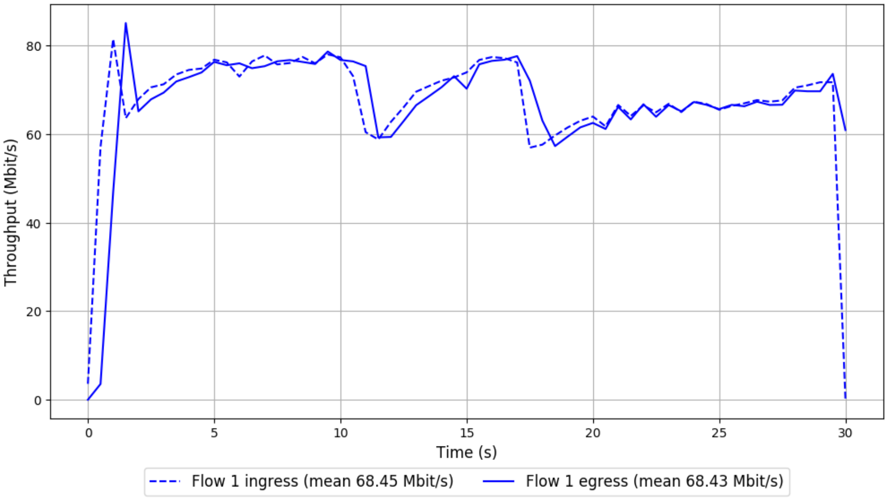


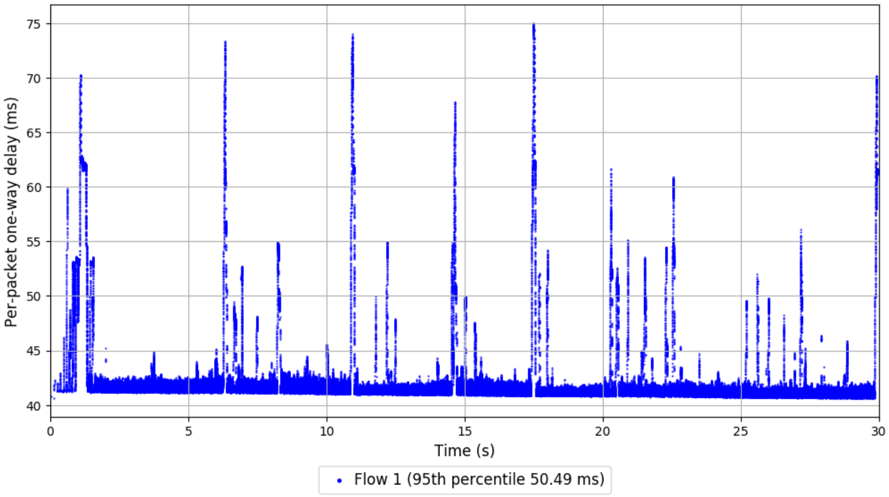
```
Run 9: Statistics of TCP Cubic

Start at: 2018-05-25 04:27:11
End at: 2018-05-25 04:27:41
Local clock offset: 2.317 ms
Remote clock offset: 8.02 ms

# Below is generated by plot.py at 2018-05-25 04:59:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.43 Mbit/s
95th percentile per-packet one-way delay: 50.492 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 68.43 Mbit/s
95th percentile per-packet one-way delay: 50.492 ms
Loss rate: 0.39%
```

Run 9: Report of TCP Cubic — Data Link



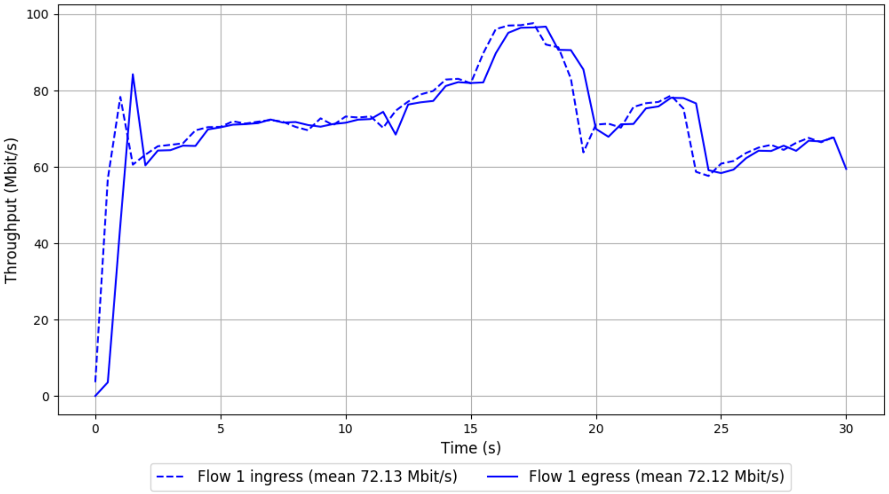


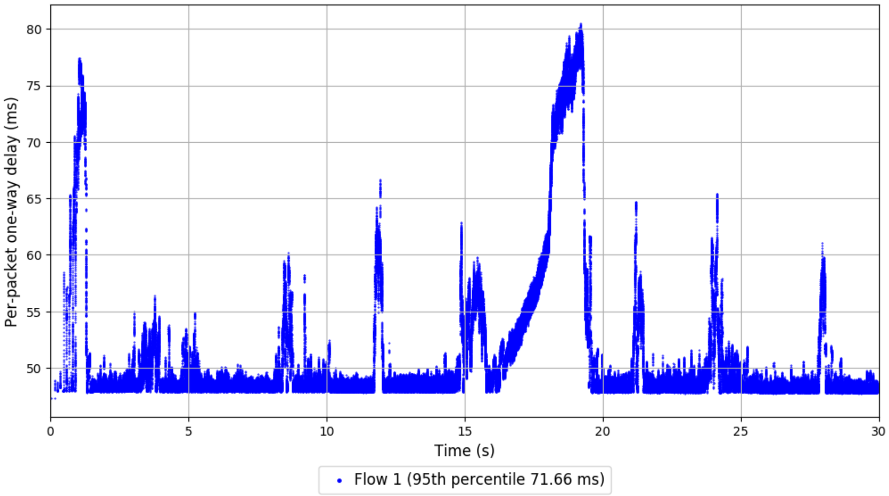
```
Run 10: Statistics of TCP Cubic

Start at: 2018-05-25 04:48:25
End at: 2018-05-25 04:48:55
Local clock offset: 2.539 ms
Remote clock offset: -11.651 ms

# Below is generated by plot.py at 2018-05-25 04:59:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.12 Mbit/s
95th percentile per-packet one-way delay: 71.660 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 72.12 Mbit/s
95th percentile per-packet one-way delay: 71.660 ms
Loss rate: 0.36%
```

Run 10: Report of TCP Cubic — Data Link



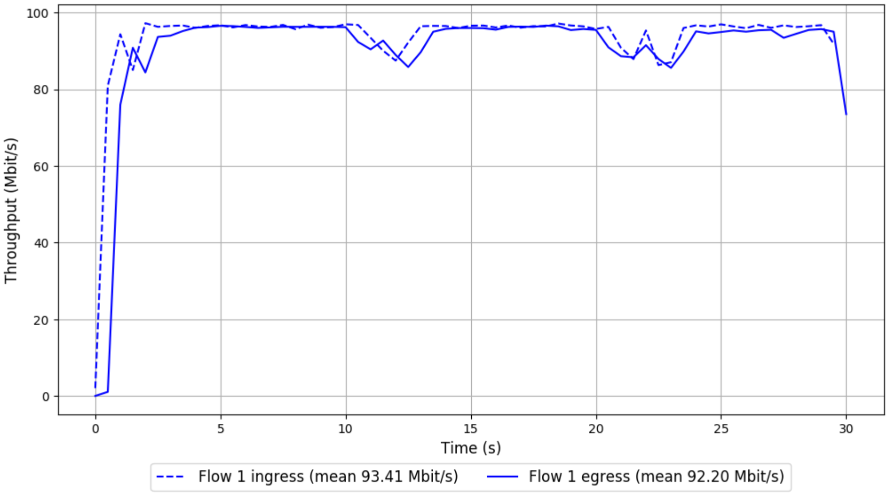


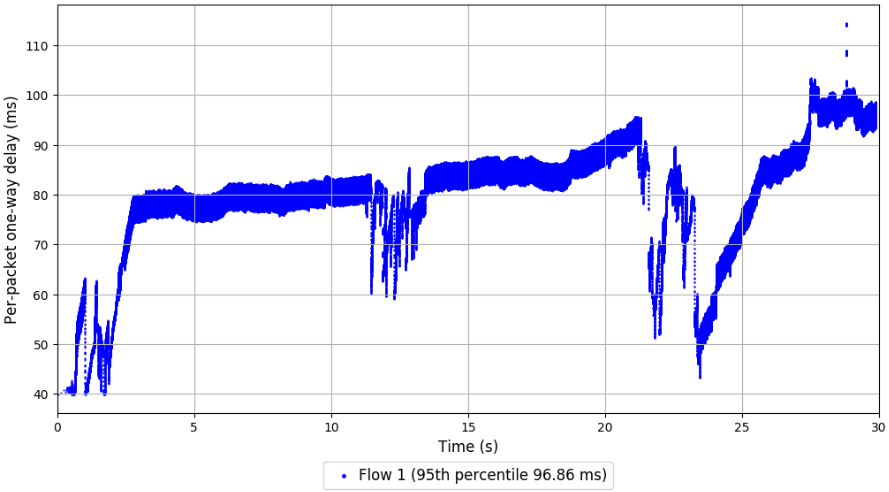
```
Run 1: Statistics of FillP

Start at: 2018-05-25 01:29:36
End at: 2018-05-25 01:30:06
Local clock offset: 2.713 ms
Remote clock offset: 1.067 ms

# Below is generated by plot.py at 2018-05-25 04:59:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.20 Mbit/s
95th percentile per-packet one-way delay: 96.861 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 92.20 Mbit/s
95th percentile per-packet one-way delay: 96.861 ms
Loss rate: 1.71%
```

Run 1: Report of FillP — Data Link



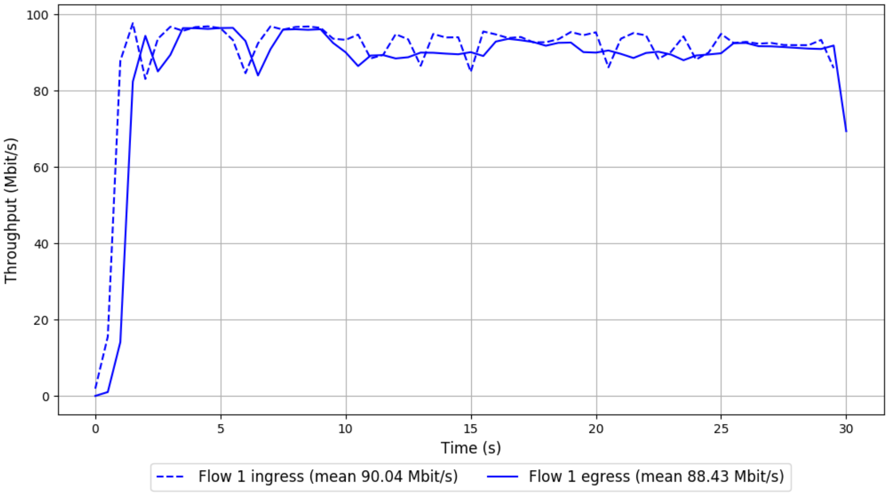


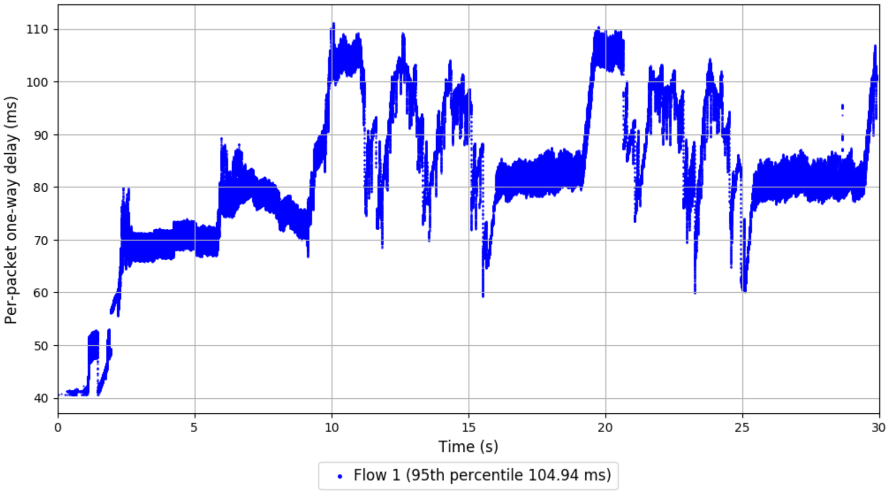
```
Run 2: Statistics of FillP

Start at: 2018-05-25 01:50:15
End at: 2018-05-25 01:50:45
Local clock offset: -1.423 ms
Remote clock offset: 0.835 ms

# Below is generated by plot.py at 2018-05-25 04:59:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.43 Mbit/s
95th percentile per-packet one-way delay: 104.943 ms
Loss rate: 2.19%
-- Flow 1:
Average throughput: 88.43 Mbit/s
95th percentile per-packet one-way delay: 104.943 ms
Loss rate: 2.19%
```

Run 2: Report of FillP — Data Link



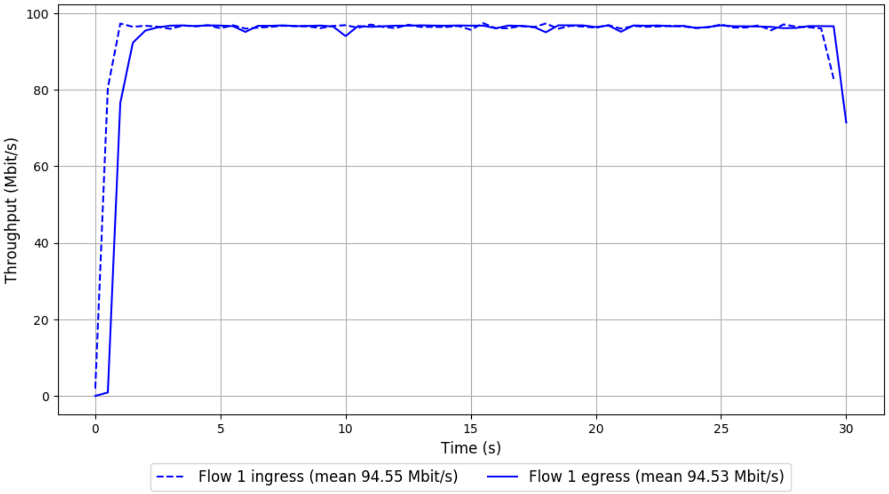


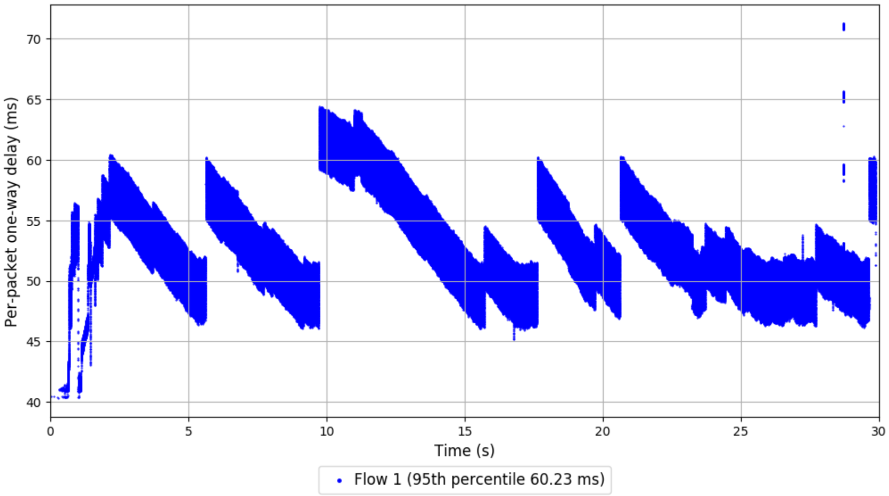
```
Run 3: Statistics of FillP

Start at: 2018-05-25 02:10:57
End at: 2018-05-25 02:11:27
Local clock offset: 0.752 ms
Remote clock offset: 1.873 ms

# Below is generated by plot.py at 2018-05-25 05:00:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.53 Mbit/s
95th percentile per-packet one-way delay: 60.227 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 94.53 Mbit/s
95th percentile per-packet one-way delay: 60.227 ms
Loss rate: 0.36%
```

Run 3: Report of FillP — Data Link



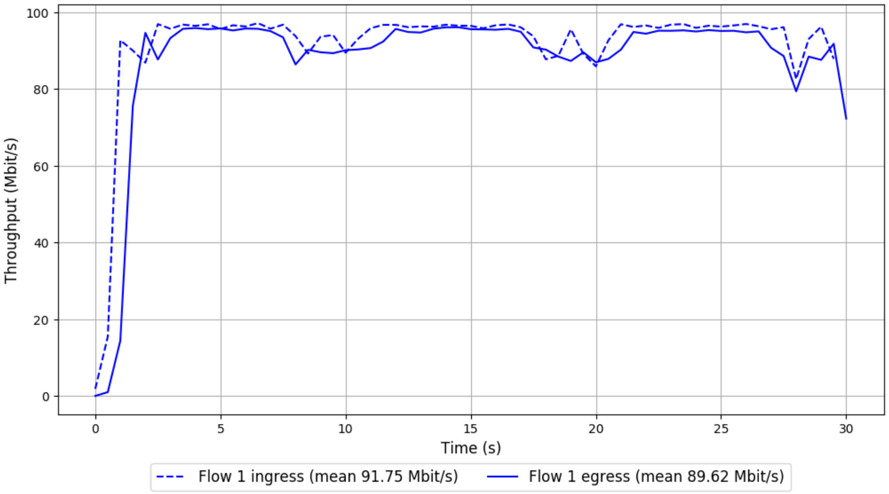


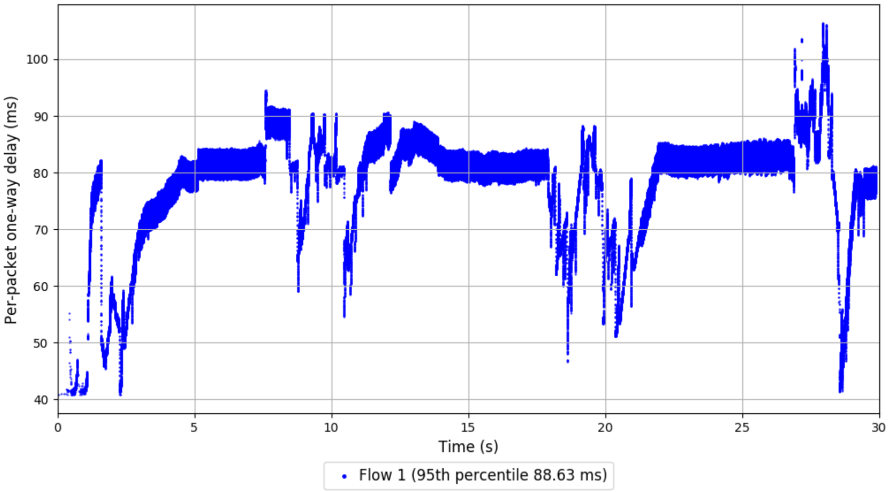
```
Run 4: Statistics of FillP

Start at: 2018-05-25 02:31:31
End at: 2018-05-25 02:32:01
Local clock offset: 2.04 ms
Remote clock offset: 3.717 ms

# Below is generated by plot.py at 2018-05-25 05:00:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 88.628 ms
Loss rate: 2.67%
-- Flow 1:
Average throughput: 89.62 Mbit/s
95th percentile per-packet one-way delay: 88.628 ms
Loss rate: 2.67%
```

Run 4: Report of FillP — Data Link



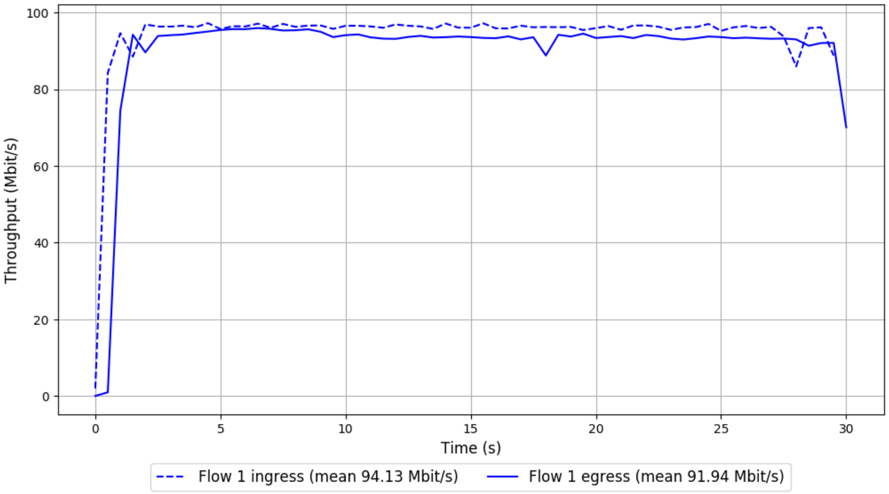


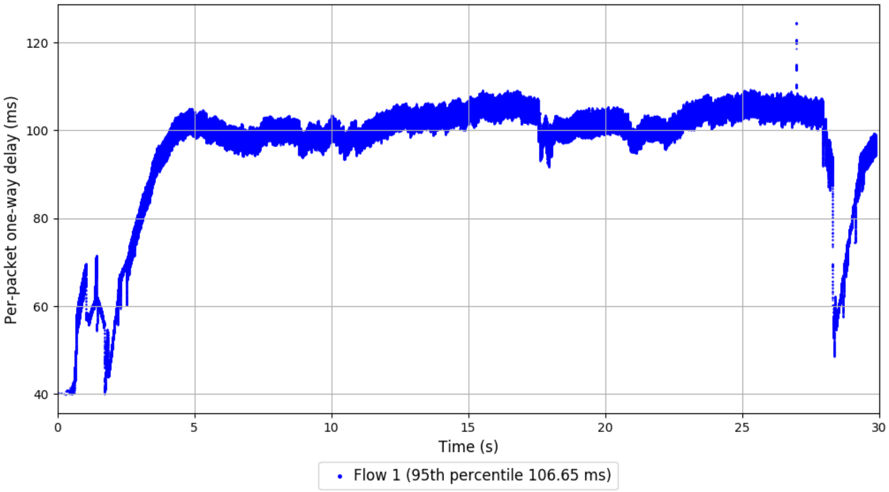
```
Run 5: Statistics of FillP

Start at: 2018-05-25 02:52:15
End at: 2018-05-25 02:52:45
Local clock offset: 2.914 ms
Remote clock offset: 5.01 ms

# Below is generated by plot.py at 2018-05-25 05:00:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 106.652 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 91.94 Mbit/s
95th percentile per-packet one-way delay: 106.652 ms
Loss rate: 2.74%
```

Run 5: Report of FillP — Data Link



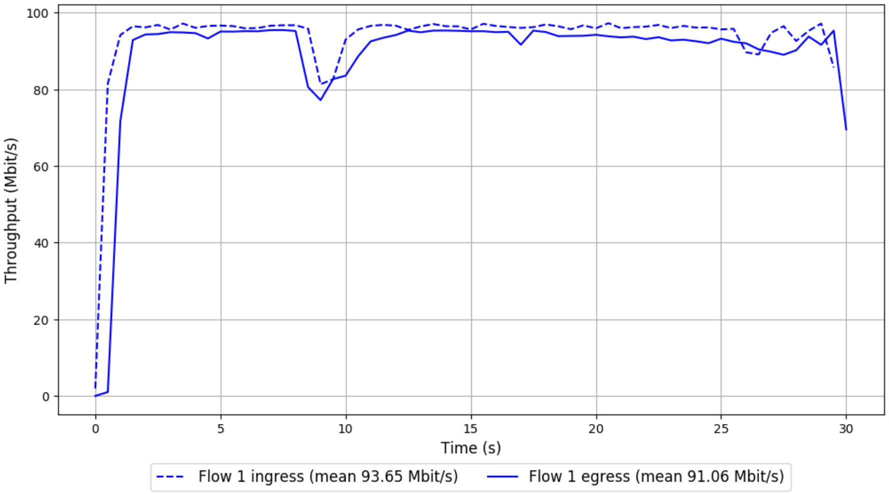


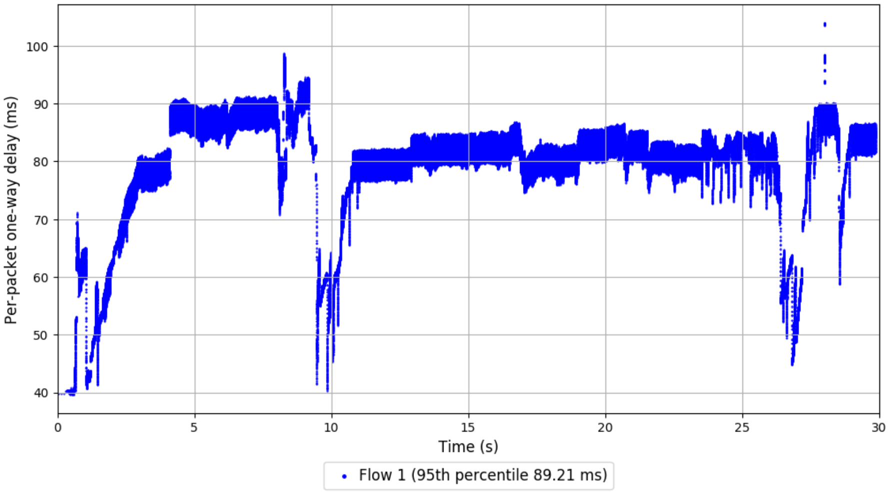
```
Run 6: Statistics of FillP

Start at: 2018-05-25 03:12:56
End at: 2018-05-25 03:13:26
Local clock offset: 4.543 ms
Remote clock offset: 6.47 ms

# Below is generated by plot.py at 2018-05-25 05:00:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.06 Mbit/s
95th percentile per-packet one-way delay: 89.212 ms
Loss rate: 3.13%
-- Flow 1:
Average throughput: 91.06 Mbit/s
95th percentile per-packet one-way delay: 89.212 ms
Loss rate: 3.13%
```

Run 6: Report of FillP — Data Link



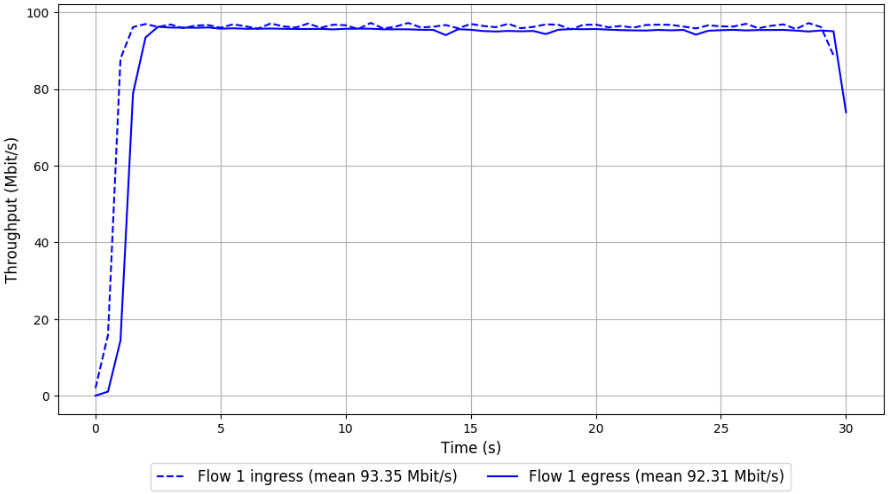


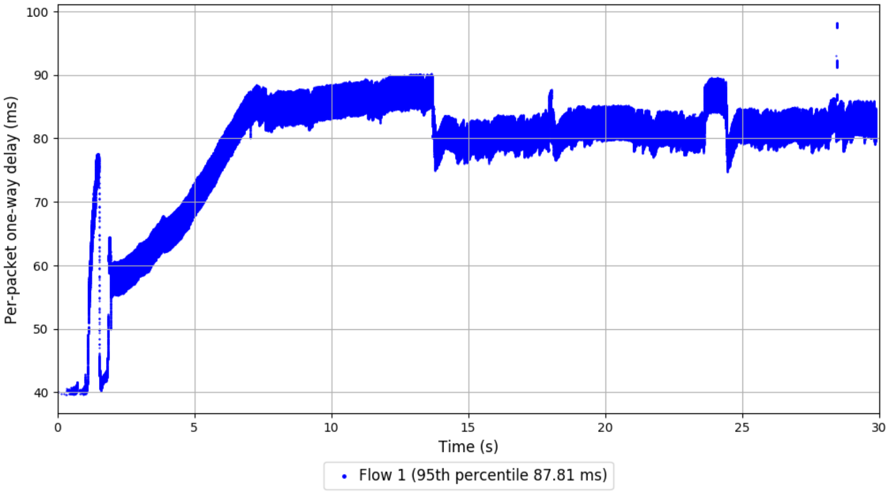
```
Run 7: Statistics of FillP

Start at: 2018-05-25 03:34:23
End at: 2018-05-25 03:34:53
Local clock offset: 3.218 ms
Remote clock offset: 7.979 ms

# Below is generated by plot.py at 2018-05-25 05:00:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 87.812 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 92.31 Mbit/s
95th percentile per-packet one-way delay: 87.812 ms
Loss rate: 1.50%
```

Run 7: Report of FillP — Data Link



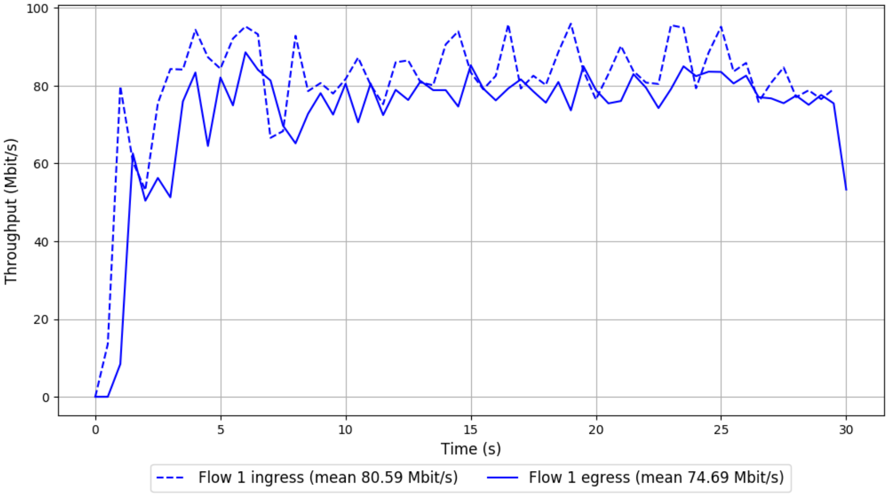


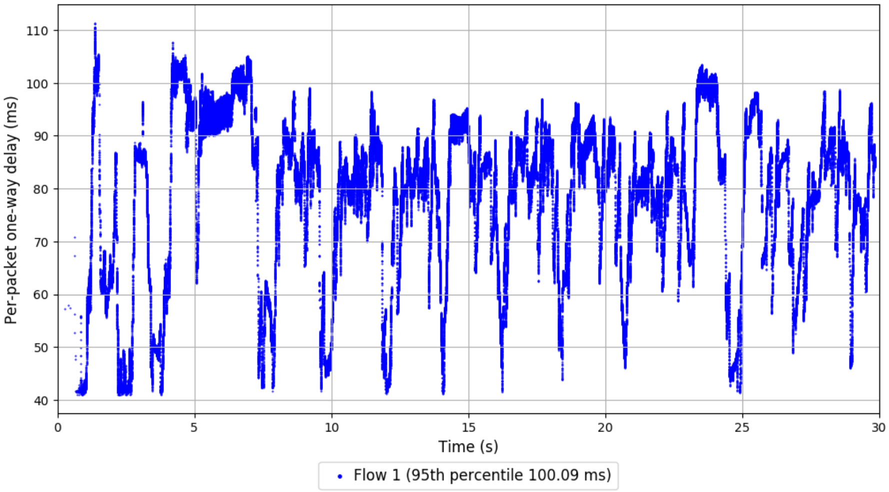
```
Run 8: Statistics of FillP

Start at: 2018-05-25 03:55:17
End at: 2018-05-25 03:55:47
Local clock offset: 2.136 ms
Remote clock offset: 9.423 ms

# Below is generated by plot.py at 2018-05-25 05:00:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.69 Mbit/s
95th percentile per-packet one-way delay: 100.091 ms
Loss rate: 8.37%
-- Flow 1:
Average throughput: 74.69 Mbit/s
95th percentile per-packet one-way delay: 100.091 ms
Loss rate: 8.37%
```

Run 8: Report of FillP — Data Link



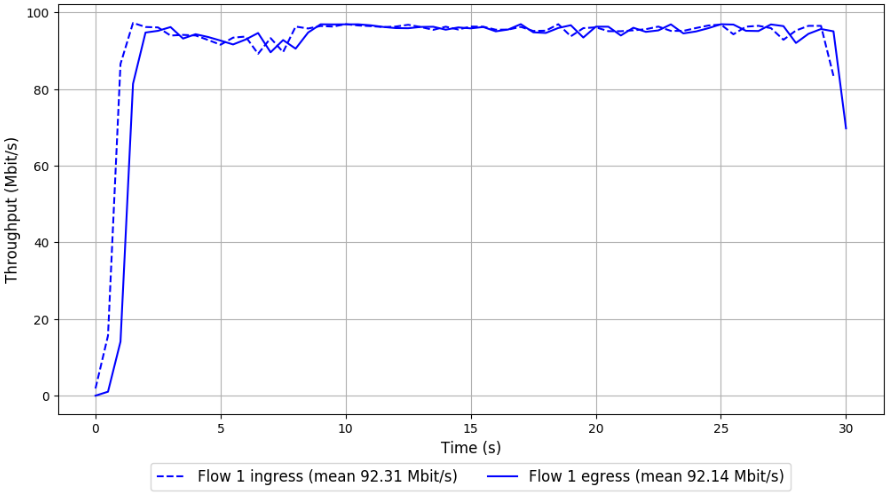


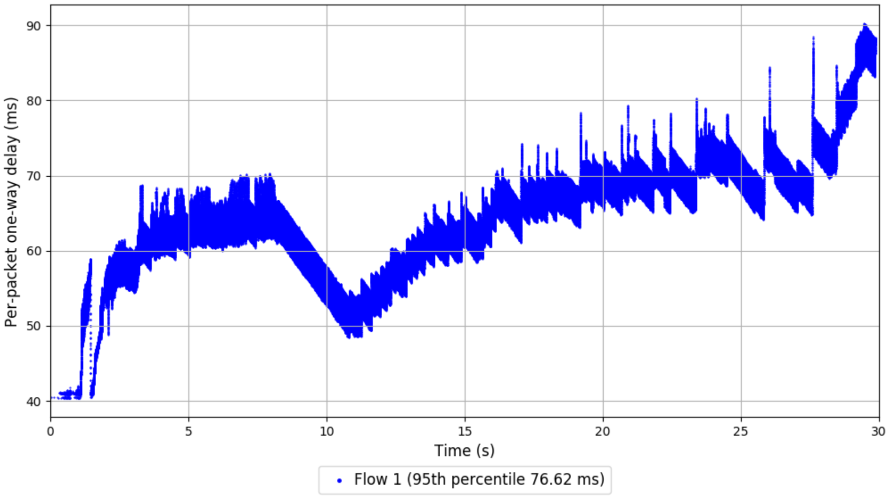
```
Run 9: Statistics of FillP

Start at: 2018-05-25 04:16:53
End at: 2018-05-25 04:17:23
Local clock offset: 2.152 ms
Remote clock offset: 11.176 ms

# Below is generated by plot.py at 2018-05-25 05:01:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: 76.625 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: 76.625 ms
Loss rate: 0.55%
```

Run 9: Report of FillP — Data Link



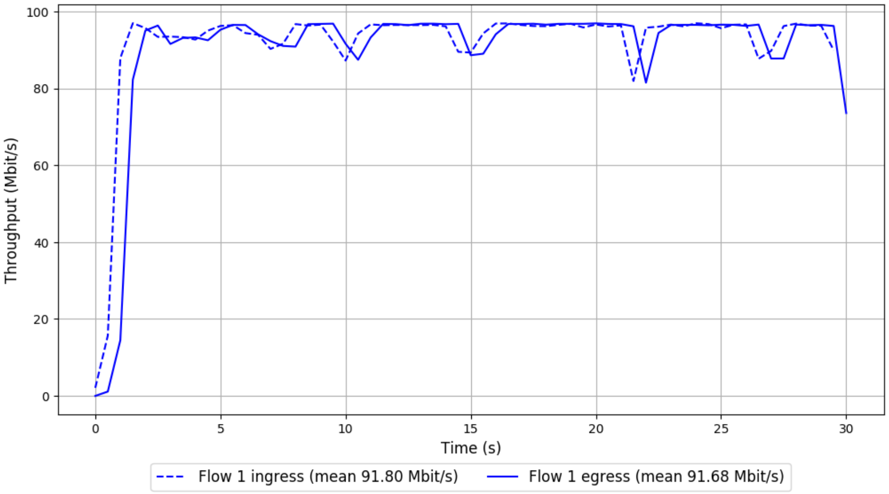


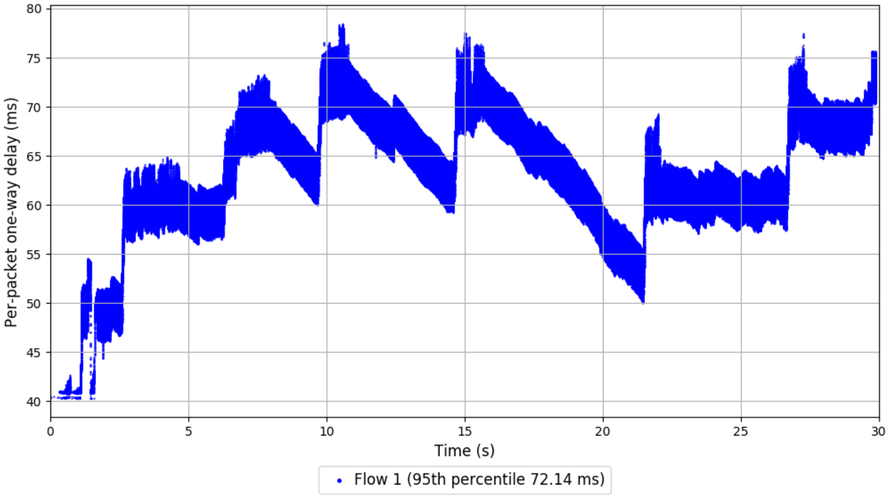
```
Run 10: Statistics of FillP

Start at: 2018-05-25 04:37:32
End at: 2018-05-25 04:38:02
Local clock offset: 2.325 ms
Remote clock offset: -0.308 ms

# Below is generated by plot.py at 2018-05-25 05:01:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 72.135 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 91.68 Mbit/s
95th percentile per-packet one-way delay: 72.135 ms
Loss rate: 0.54%
```

Run 10: Report of FillP — Data Link



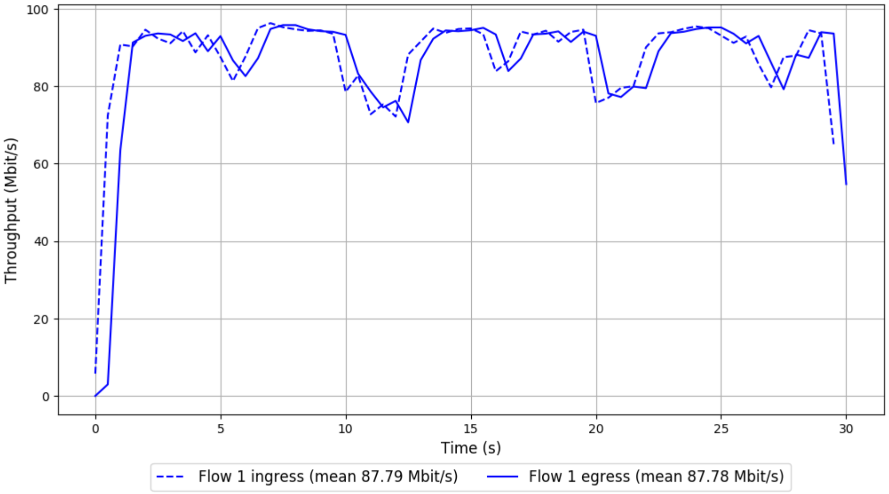


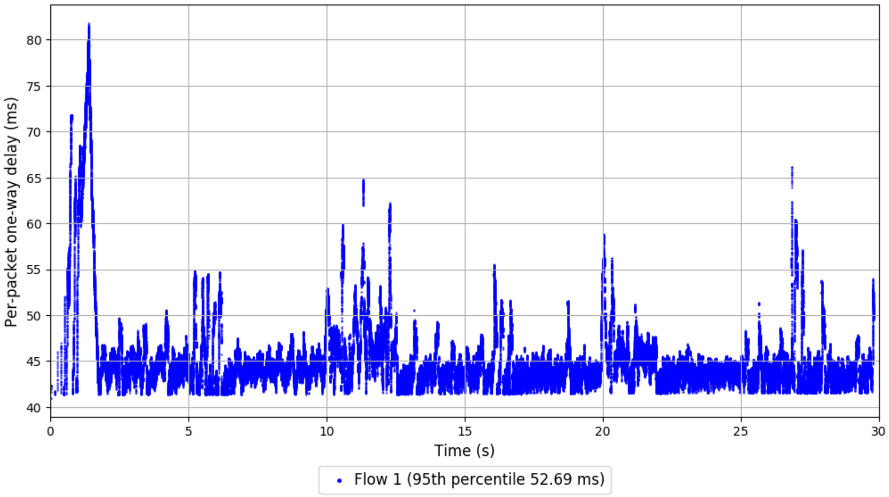
```
Run 1: Statistics of Indigo

Start at: 2018-05-25 01:28:16
End at: 2018-05-25 01:28:46
Local clock offset: 3.245 ms
Remote clock offset: 0.969 ms

# Below is generated by plot.py at 2018-05-25 05:01:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.78 Mbit/s
95th percentile per-packet one-way delay: 52.690 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 87.78 Mbit/s
95th percentile per-packet one-way delay: 52.690 ms
Loss rate: 0.36%
```

Run 1: Report of Indigo — Data Link



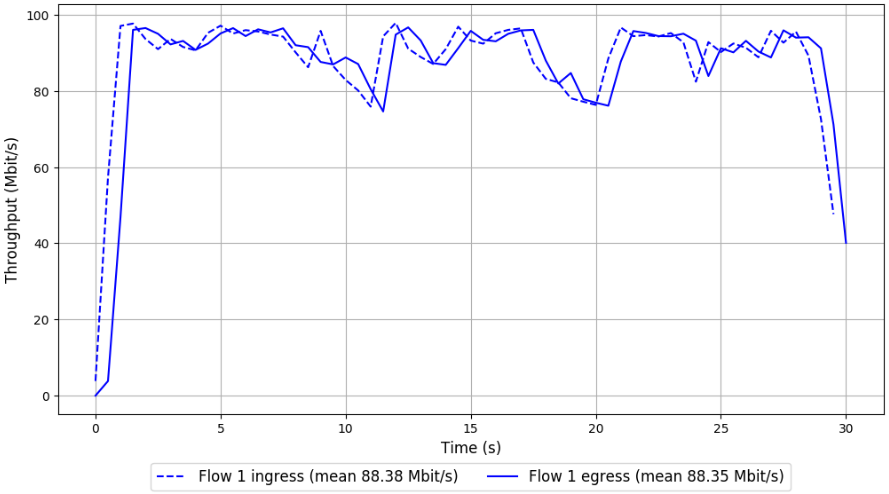


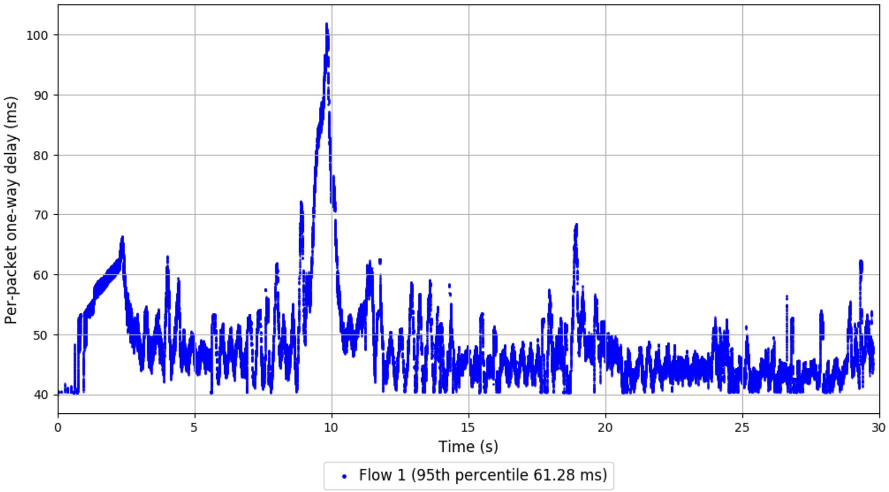
```
Run 2: Statistics of Indigo

Start at: 2018-05-25 01:48:55
End at: 2018-05-25 01:49:25
Local clock offset: -1.248 ms
Remote clock offset: 0.815 ms

# Below is generated by plot.py at 2018-05-25 05:01:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.35 Mbit/s
95th percentile per-packet one-way delay: 61.282 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 88.35 Mbit/s
95th percentile per-packet one-way delay: 61.282 ms
Loss rate: 0.39%
```

Run 2: Report of Indigo — Data Link



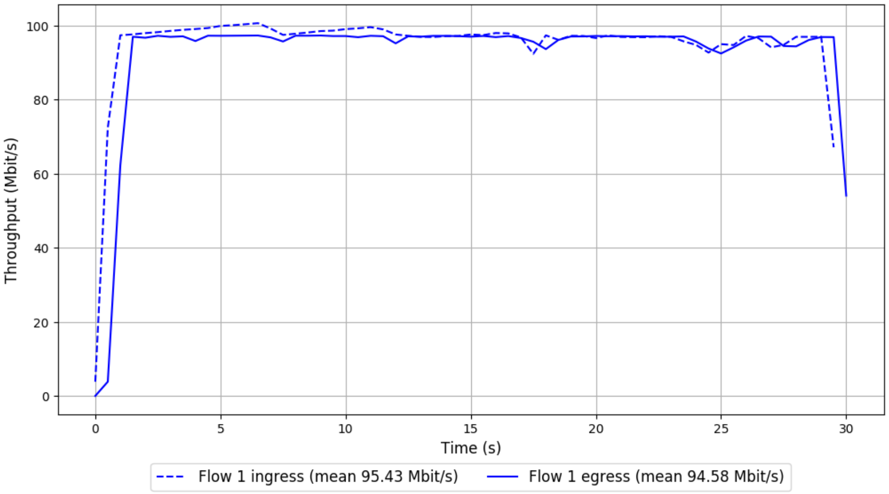


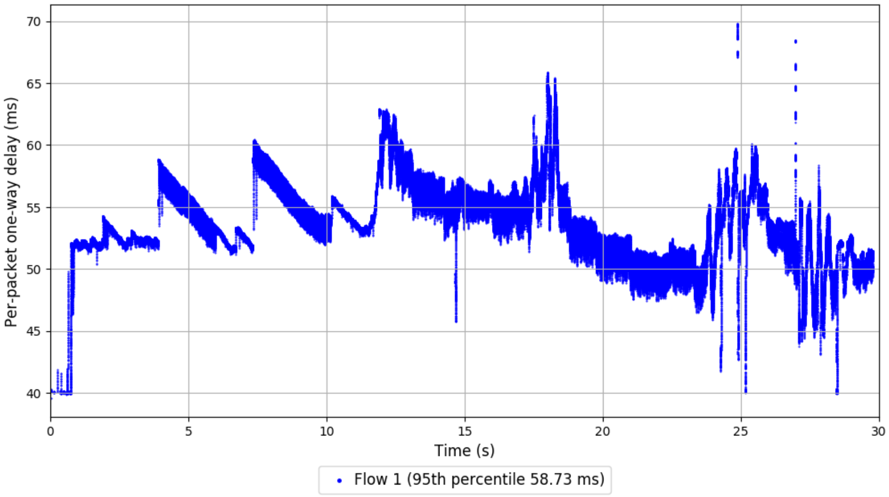
```
Run 3: Statistics of Indigo

Start at: 2018-05-25 02:09:37
End at: 2018-05-25 02:10:07
Local clock offset: 0.49 ms
Remote clock offset: 1.592 ms

# Below is generated by plot.py at 2018-05-25 05:01:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.58 Mbit/s
95th percentile per-packet one-way delay: 58.729 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 94.58 Mbit/s
95th percentile per-packet one-way delay: 58.729 ms
Loss rate: 1.23%
```

Run 3: Report of Indigo — Data Link



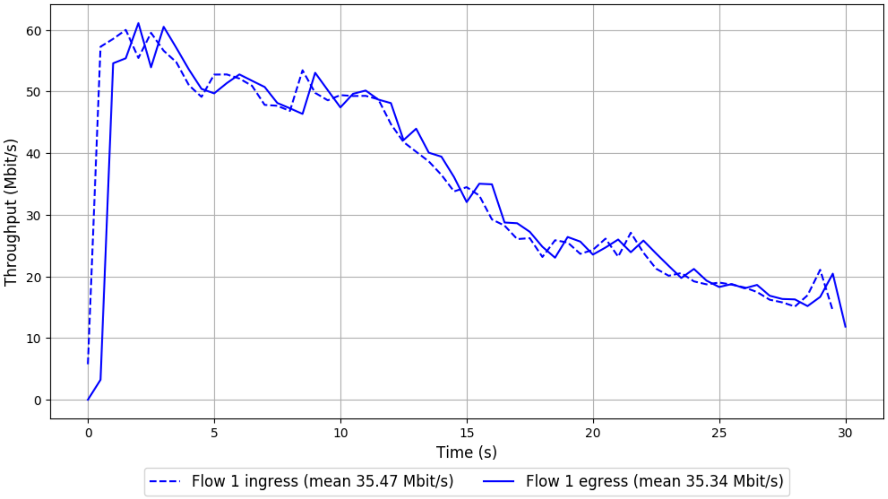


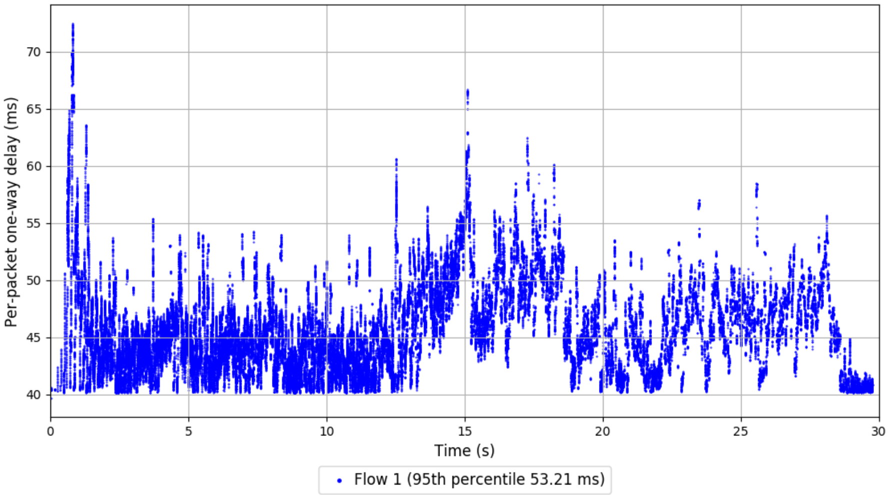
```
Run 4: Statistics of Indigo

Start at: 2018-05-25 02:30:13
End at: 2018-05-25 02:30:43
Local clock offset: 1.614 ms
Remote clock offset: 3.839 ms

# Below is generated by plot.py at 2018-05-25 05:01:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.34 Mbit/s
95th percentile per-packet one-way delay: 53.207 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 35.34 Mbit/s
95th percentile per-packet one-way delay: 53.207 ms
Loss rate: 0.73%
```

Run 4: Report of Indigo — Data Link



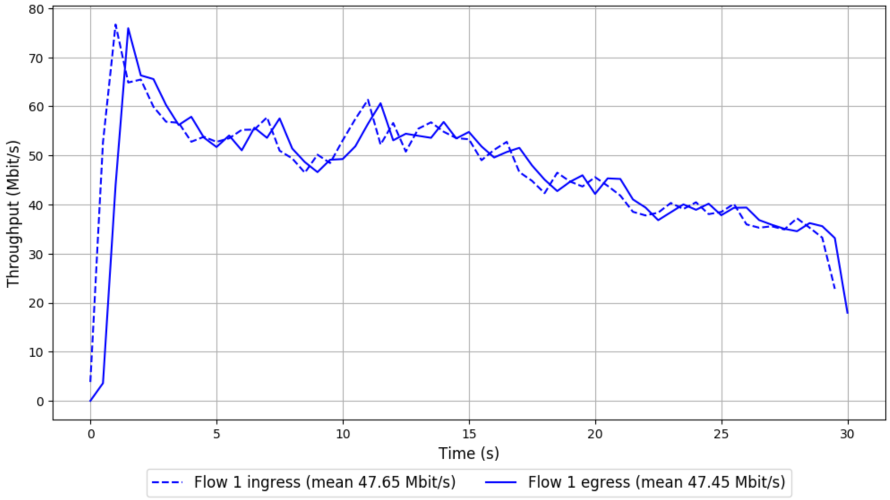


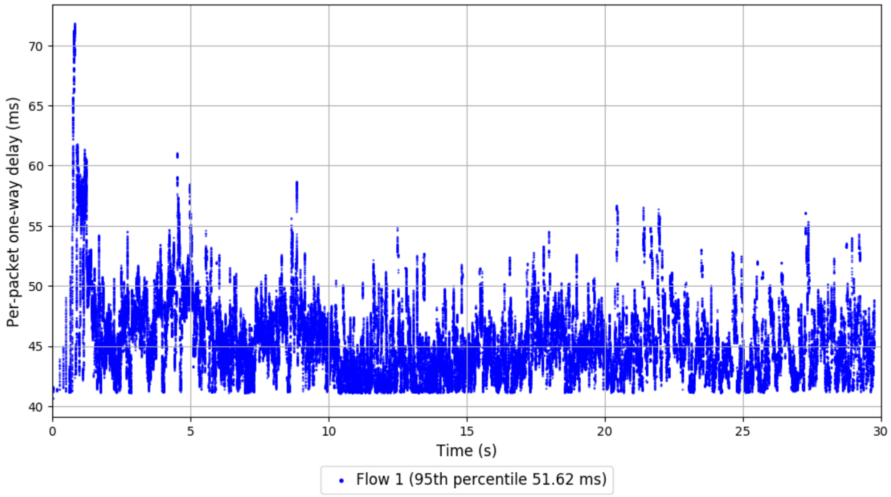
```
Run 5: Statistics of Indigo

Start at: 2018-05-25 02:50:57
End at: 2018-05-25 02:51:27
Local clock offset: 2.913 ms
Remote clock offset: 5.111 ms

# Below is generated by plot.py at 2018-05-25 05:01:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.45 Mbit/s
95th percentile per-packet one-way delay: 51.616 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 47.45 Mbit/s
95th percentile per-packet one-way delay: 51.616 ms
Loss rate: 0.80%
```

Run 5: Report of Indigo — Data Link



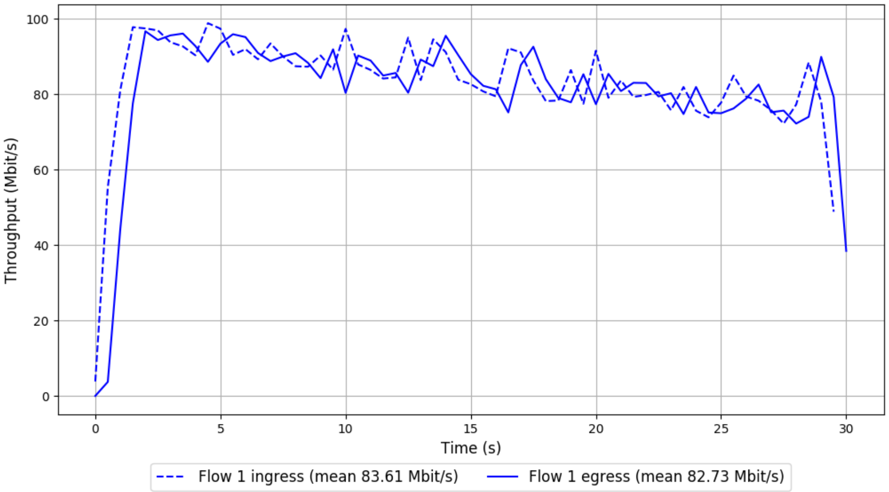


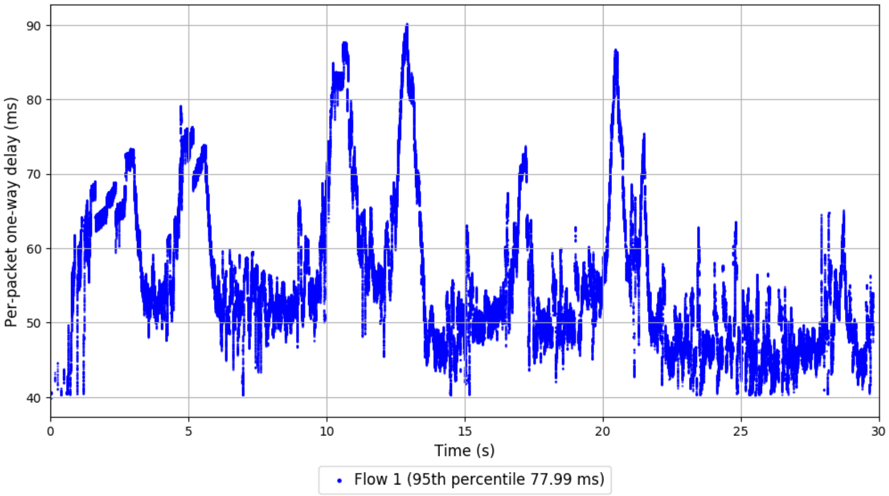
```
Run 6: Statistics of Indigo

Start at: 2018-05-25 03:11:34
End at: 2018-05-25 03:12:04
Local clock offset: 4.335 ms
Remote clock offset: 6.404 ms

# Below is generated by plot.py at 2018-05-25 05:01:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.73 Mbit/s
95th percentile per-packet one-way delay: 77.989 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 82.73 Mbit/s
95th percentile per-packet one-way delay: 77.989 ms
Loss rate: 1.43%
```

Run 6: Report of Indigo — Data Link



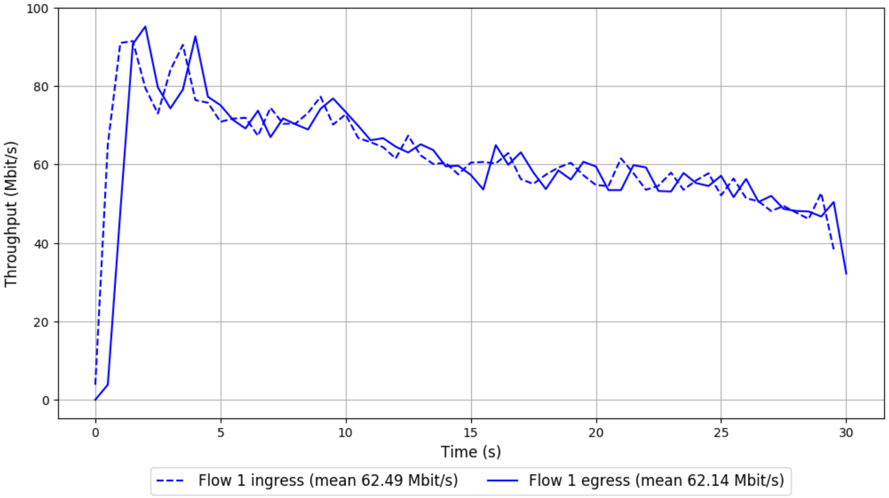


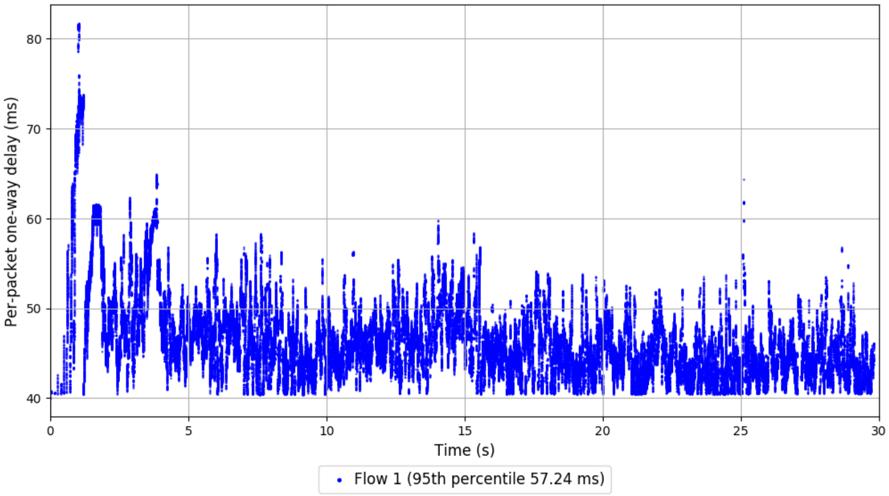
```
Run 7: Statistics of Indigo

Start at: 2018-05-25 03:33:02
End at: 2018-05-25 03:33:32
Local clock offset: 3.256 ms
Remote clock offset: 7.883 ms

# Below is generated by plot.py at 2018-05-25 05:01:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.14 Mbit/s
95th percentile per-packet one-way delay: 57.236 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 62.14 Mbit/s
95th percentile per-packet one-way delay: 57.236 ms
Loss rate: 0.90%
```

Run 7: Report of Indigo — Data Link



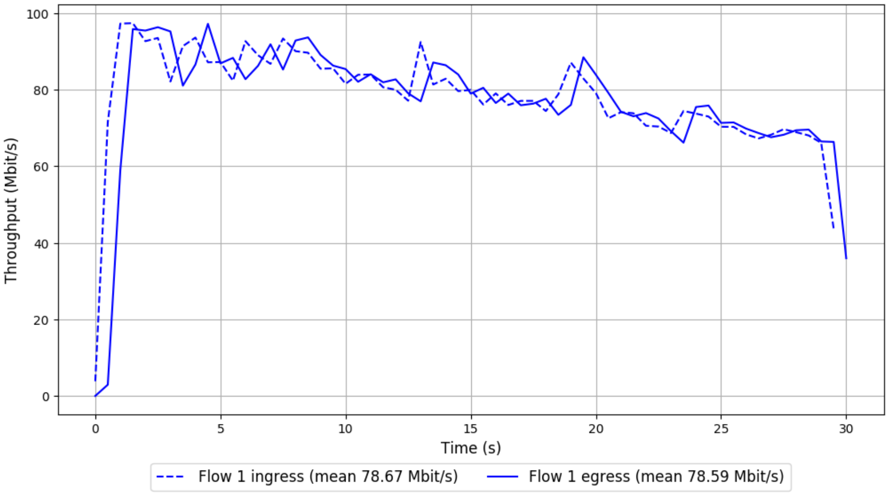


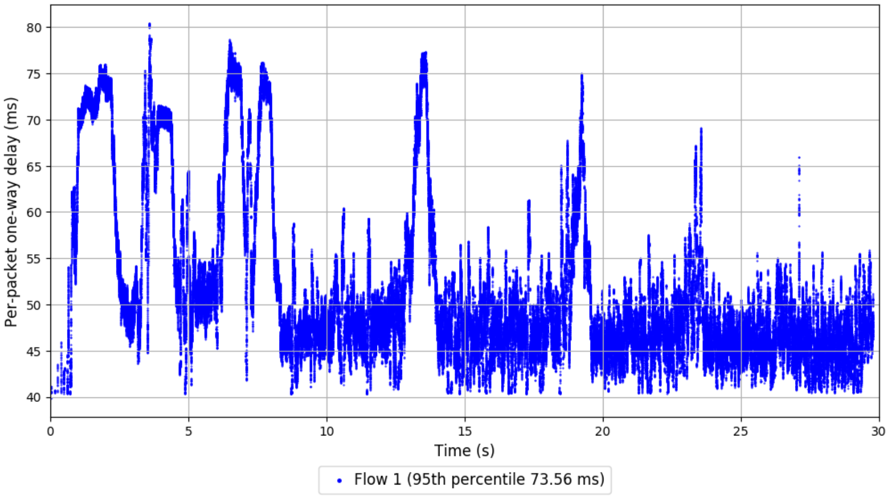
```
Run 8: Statistics of Indigo

Start at: 2018-05-25 03:53:53
End at: 2018-05-25 03:54:23
Local clock offset: 2.16 ms
Remote clock offset: 9.553 ms

# Below is generated by plot.py at 2018-05-25 05:02:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.59 Mbit/s
95th percentile per-packet one-way delay: 73.564 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 78.59 Mbit/s
95th percentile per-packet one-way delay: 73.564 ms
Loss rate: 0.48%
```

Run 8: Report of Indigo — Data Link



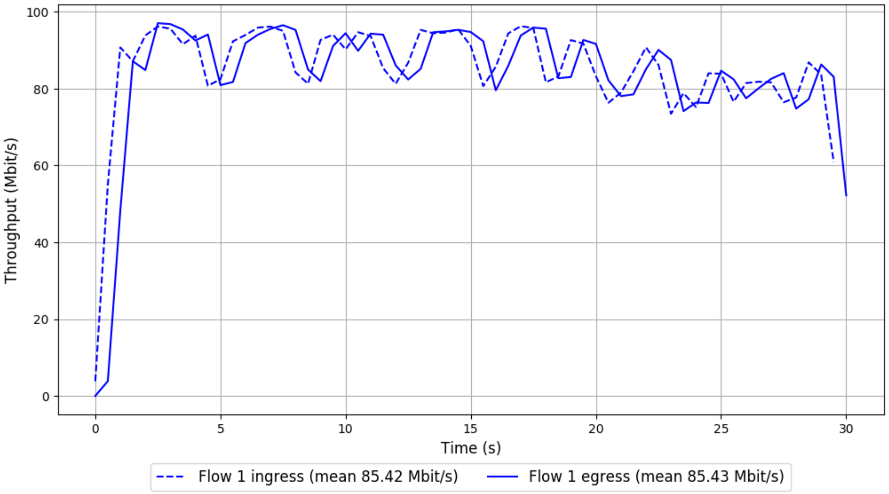


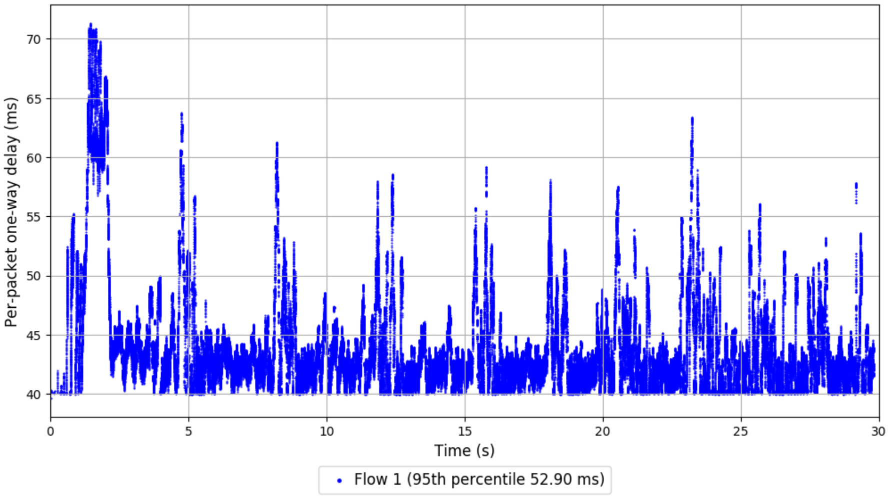
```
Run 9: Statistics of Indigo

Start at: 2018-05-25 04:15:33
End at: 2018-05-25 04:16:03
Local clock offset: 2.264 ms
Remote clock offset: 11.134 ms

# Below is generated by plot.py at 2018-05-25 05:02:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.43 Mbit/s
95th percentile per-packet one-way delay: 52.895 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 85.43 Mbit/s
95th percentile per-packet one-way delay: 52.895 ms
Loss rate: 0.34%
```

Run 9: Report of Indigo — Data Link



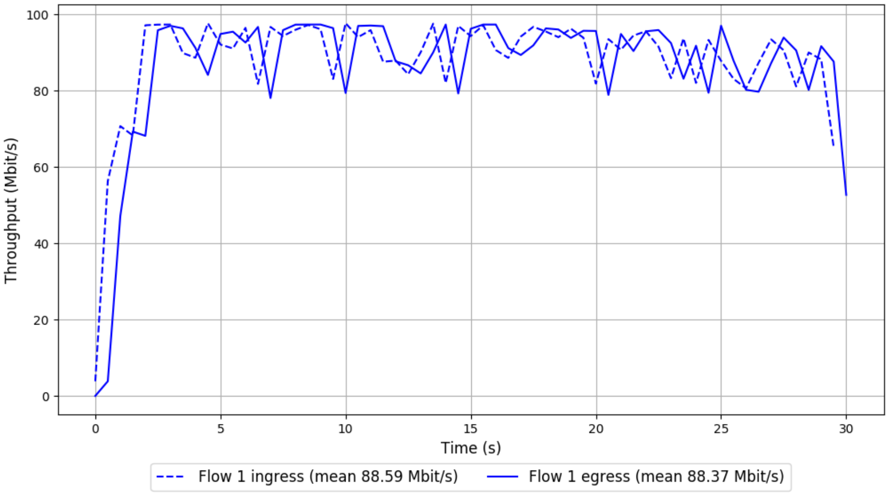


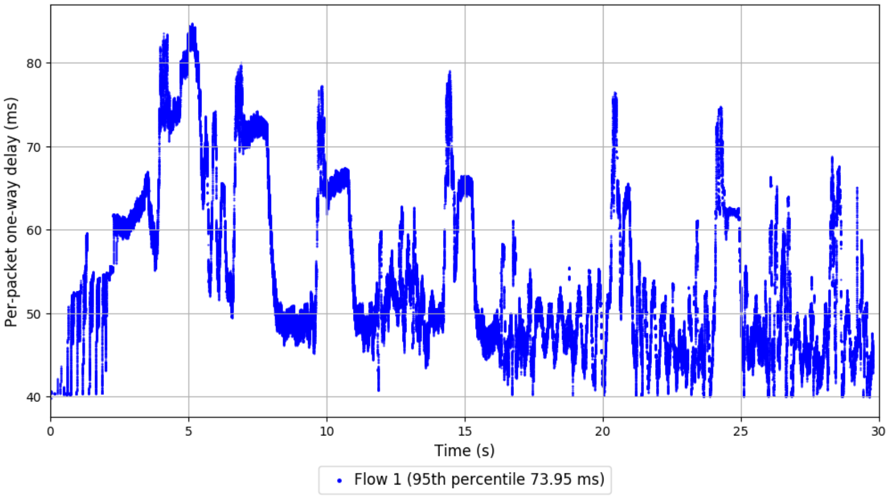
```
Run 10: Statistics of Indigo

Start at: 2018-05-25 04:36:12
End at: 2018-05-25 04:36:42
Local clock offset: 2.425 ms
Remote clock offset: 0.374 ms

# Below is generated by plot.py at 2018-05-25 05:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 73.954 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 88.37 Mbit/s
95th percentile per-packet one-way delay: 73.954 ms
Loss rate: 0.60%
```

Run 10: Report of Indigo — Data Link



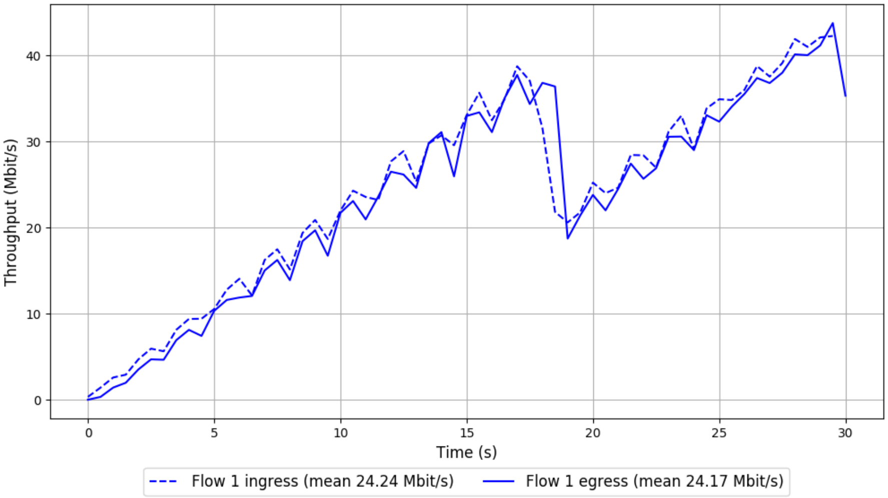


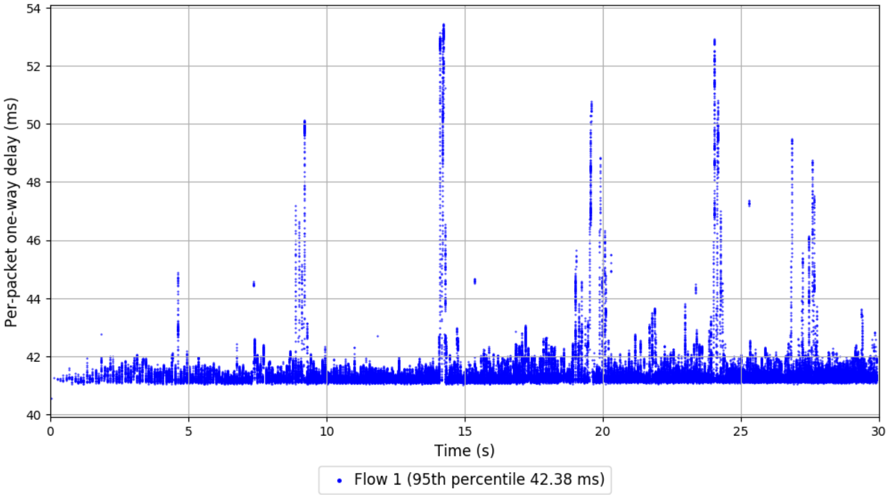
```
Run 1: Statistics of LEDBAT

Start at: 2018-05-25 01:42:30
End at: 2018-05-25 01:43:00
Local clock offset: -0.399 ms
Remote clock offset: 0.972 ms

# Below is generated by plot.py at 2018-05-25 05:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 42.378 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 42.378 ms
Loss rate: 0.64%
```

Run 1: Report of LEDBAT — Data Link



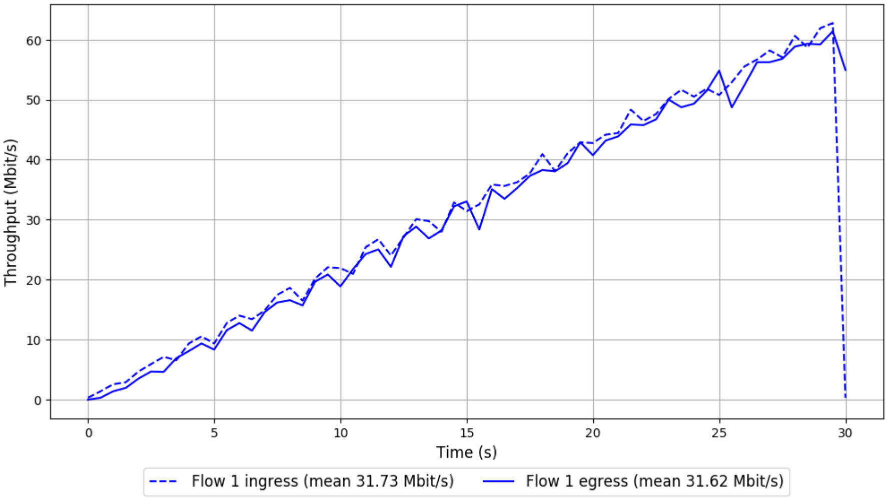


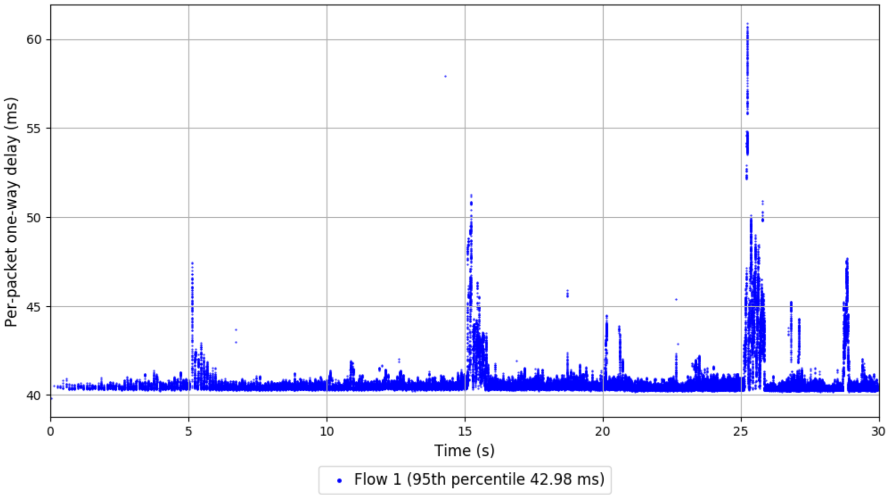
```
Run 2: Statistics of LEDBAT

Start at: 2018-05-25 02:03:10
End at: 2018-05-25 02:03:41
Local clock offset: 0.113 ms
Remote clock offset: 1.241 ms

# Below is generated by plot.py at 2018-05-25 05:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.62 Mbit/s
95th percentile per-packet one-way delay: 42.983 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 31.62 Mbit/s
95th percentile per-packet one-way delay: 42.983 ms
Loss rate: 0.70%
```

Run 2: Report of LEDBAT — Data Link



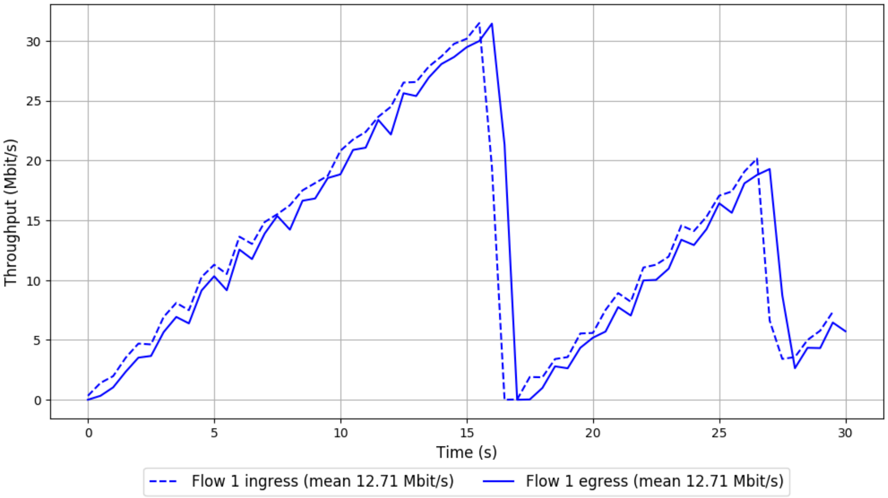


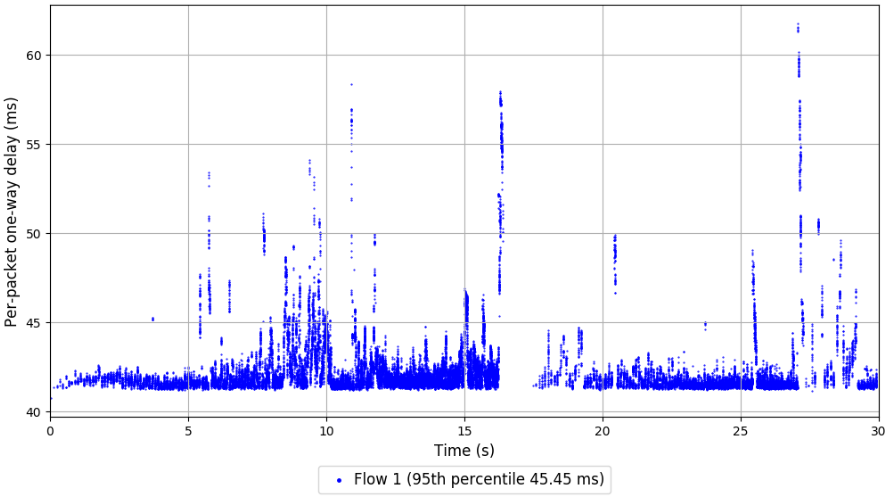
```
Run 3: Statistics of LEDBAT

Start at: 2018-05-25 02:23:49
End at: 2018-05-25 02:24:19
Local clock offset: 1.239 ms
Remote clock offset: 3.281 ms

# Below is generated by plot.py at 2018-05-25 05:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 45.454 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 12.71 Mbit/s
95th percentile per-packet one-way delay: 45.454 ms
Loss rate: 0.34%
```

Run 3: Report of LEDBAT — Data Link



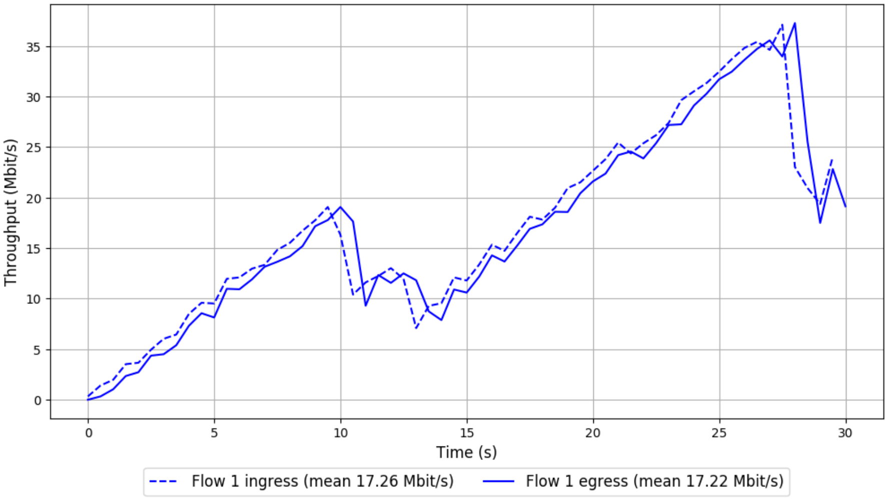


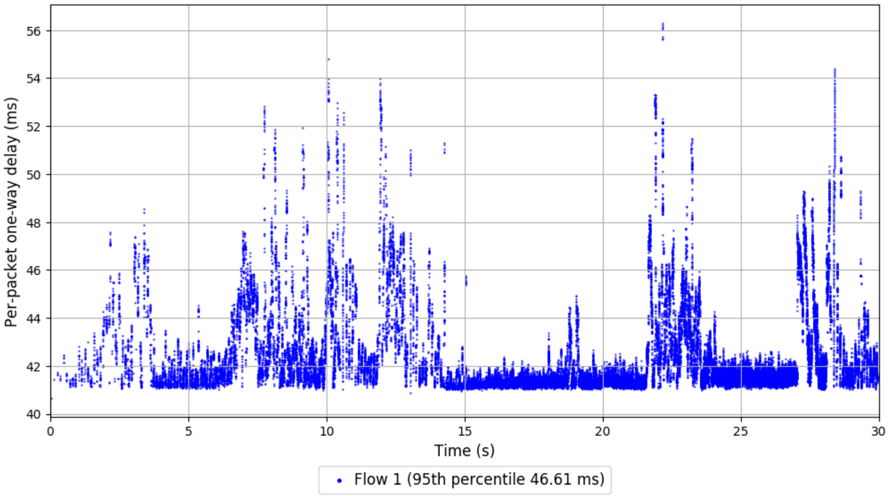
```
Run 4: Statistics of LEDBAT

Start at: 2018-05-25 02:44:26
End at: 2018-05-25 02:44:56
Local clock offset: 2.685 ms
Remote clock offset: 4.785 ms

# Below is generated by plot.py at 2018-05-25 05:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 17.22 Mbit/s
95th percentile per-packet one-way delay: 46.609 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 17.22 Mbit/s
95th percentile per-packet one-way delay: 46.609 ms
Loss rate: 0.55%
```

Run 4: Report of LEDBAT — Data Link



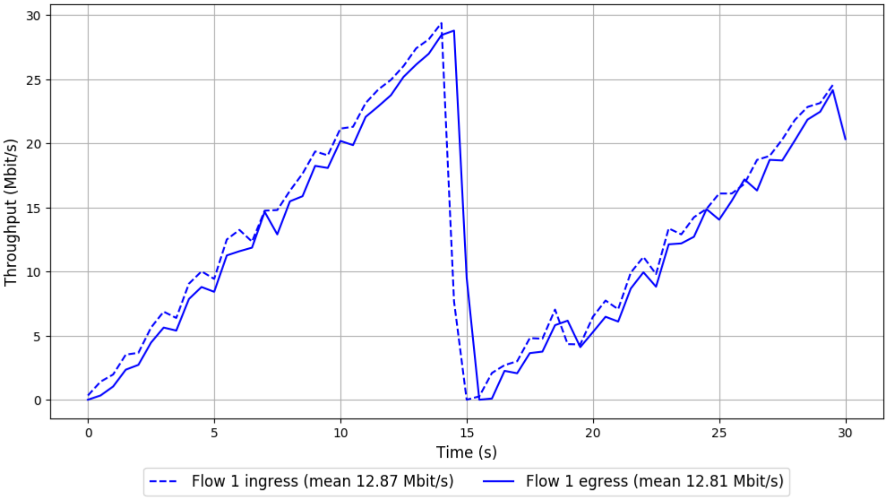


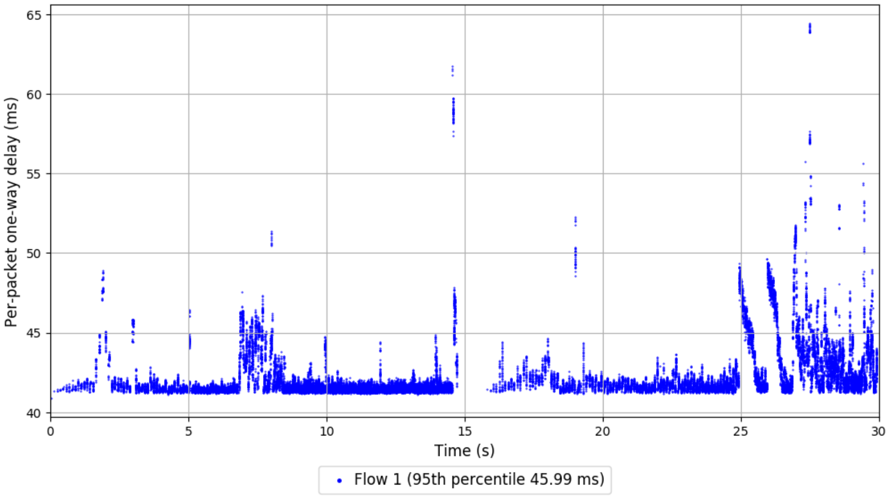
```
Run 5: Statistics of LEDBAT

Start at: 2018-05-25 03:05:07
End at: 2018-05-25 03:05:37
Local clock offset: 3.899 ms
Remote clock offset: 6.012 ms

# Below is generated by plot.py at 2018-05-25 05:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 45.990 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 12.81 Mbit/s
95th percentile per-packet one-way delay: 45.990 ms
Loss rate: 0.84%
```

Run 5: Report of LEDBAT — Data Link

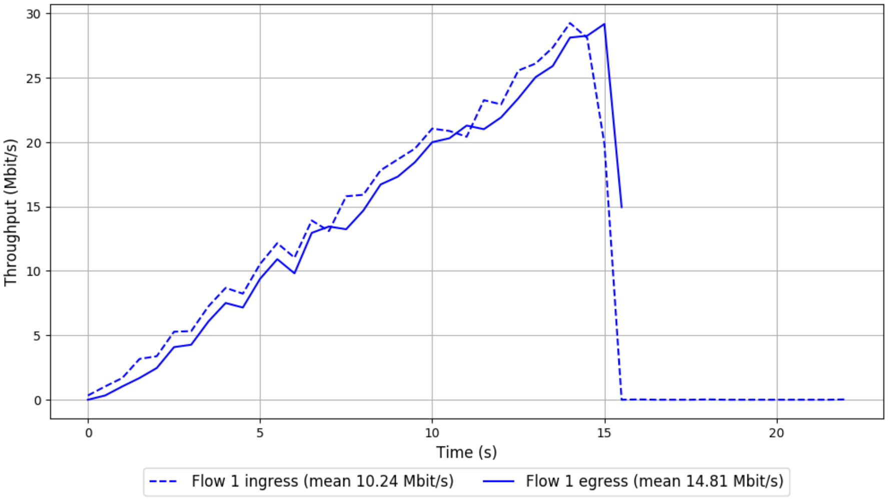


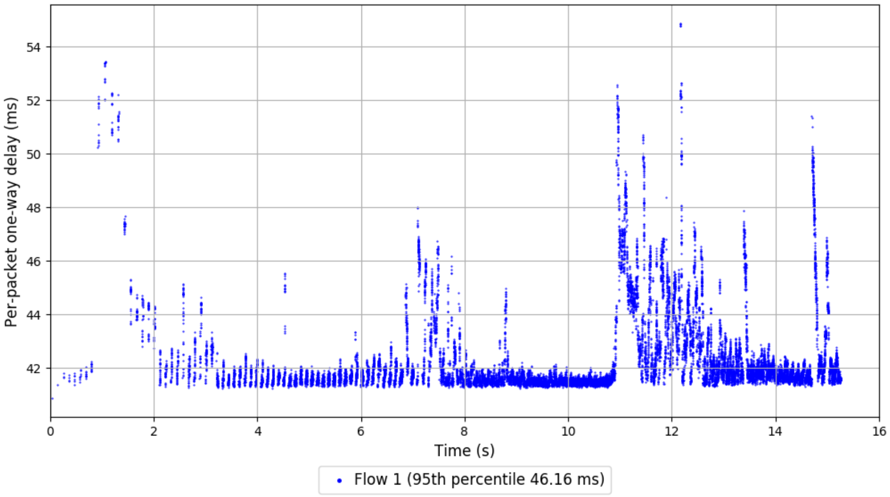


```
Run 6: Statistics of LEDBAT

Start at: 2018-05-25 03:25:53
End at: 2018-05-25 03:26:23
Local clock offset: 5.064 ms
Remote clock offset: 7.564 ms
```

Run 6: Report of LEDBAT — Data Link



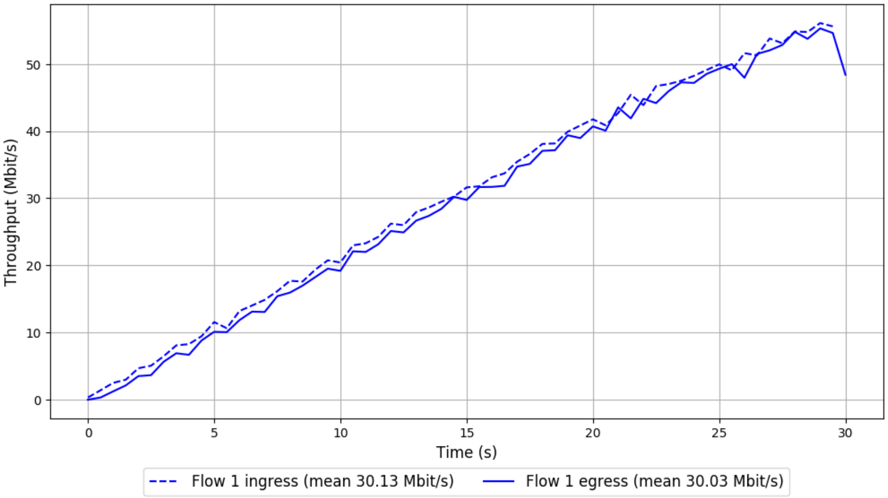


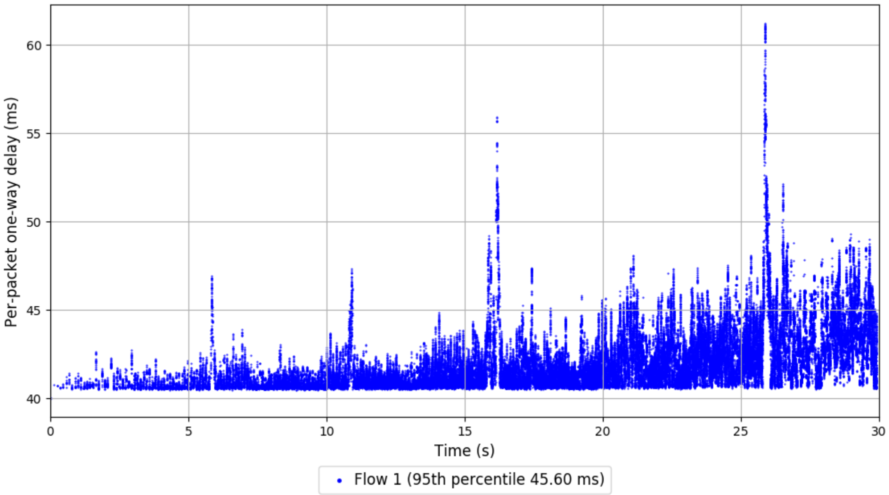
```
Run 7: Statistics of LEDBAT

Start at: 2018-05-25 03:47:27
End at: 2018-05-25 03:47:57
Local clock offset: 2.433 ms
Remote clock offset: 9.078 ms

# Below is generated by plot.py at 2018-05-25 05:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.03 Mbit/s
95th percentile per-packet one-way delay: 45.598 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 30.03 Mbit/s
95th percentile per-packet one-way delay: 45.598 ms
Loss rate: 0.71%
```

Run 7: Report of LEDBAT — Data Link



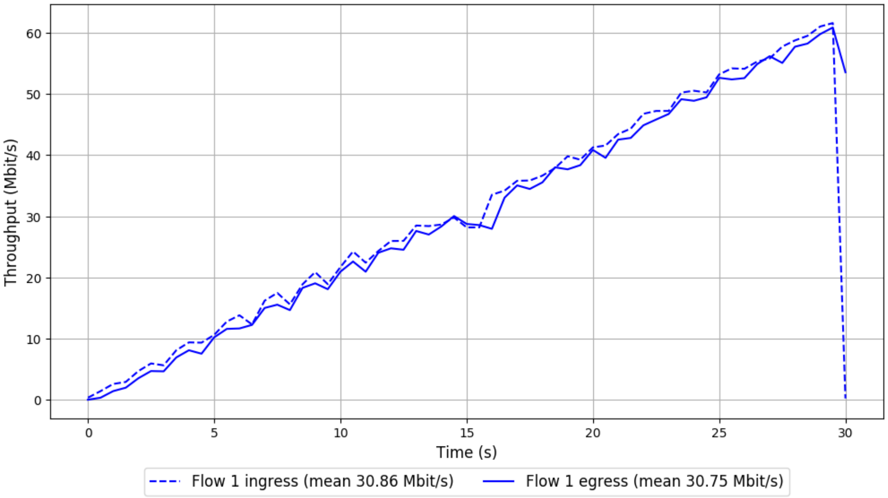


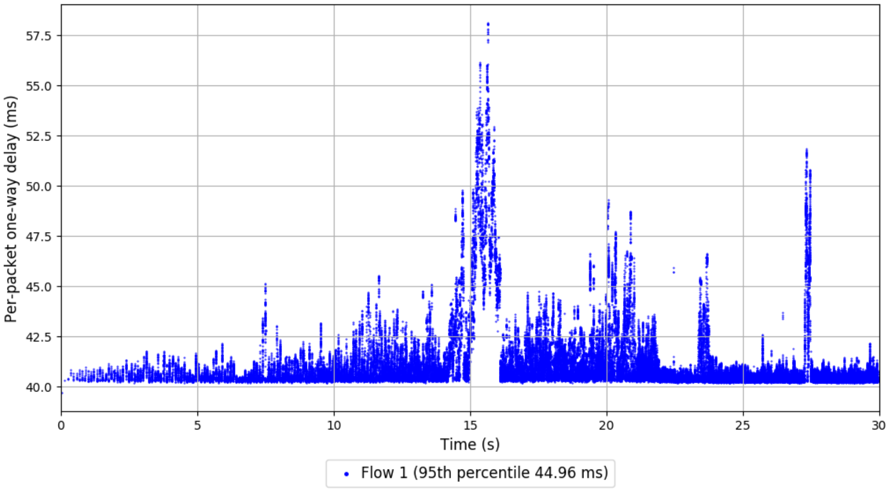
```
Run 8: Statistics of LEDBAT

Start at: 2018-05-25 04:09:07
End at: 2018-05-25 04:09:37
Local clock offset: 2.133 ms
Remote clock offset: 10.681 ms

# Below is generated by plot.py at 2018-05-25 05:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 44.956 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 30.75 Mbit/s
95th percentile per-packet one-way delay: 44.956 ms
Loss rate: 0.71%
```

Run 8: Report of LEDBAT — Data Link



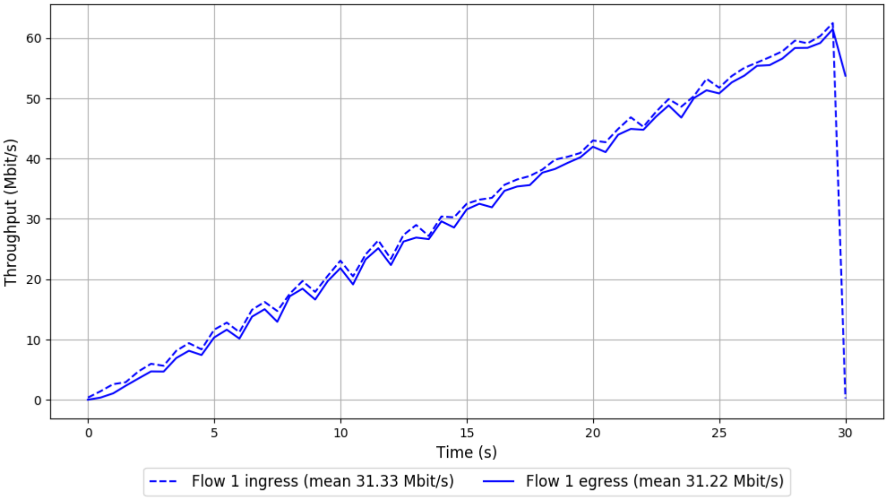


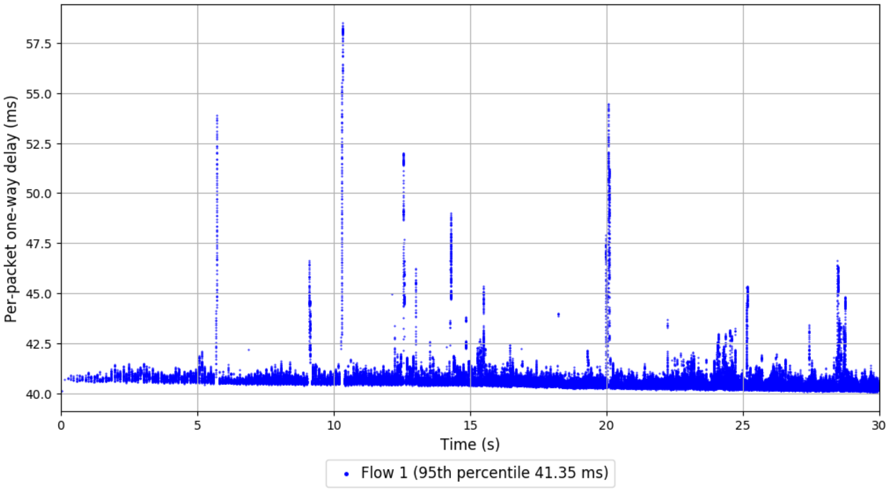
```
Run 9: Statistics of LEDBAT

Start at: 2018-05-25 04:29:47
End at: 2018-05-25 04:30:17
Local clock offset: 2.22 ms
Remote clock offset: 5.343 ms

# Below is generated by plot.py at 2018-05-25 05:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 41.351 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 31.22 Mbit/s
95th percentile per-packet one-way delay: 41.351 ms
Loss rate: 0.70%
```

Run 9: Report of LEDBAT — Data Link



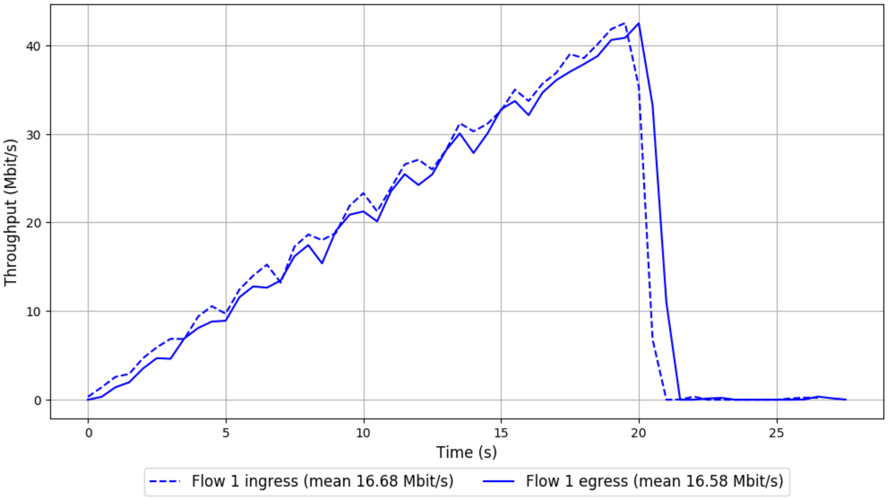


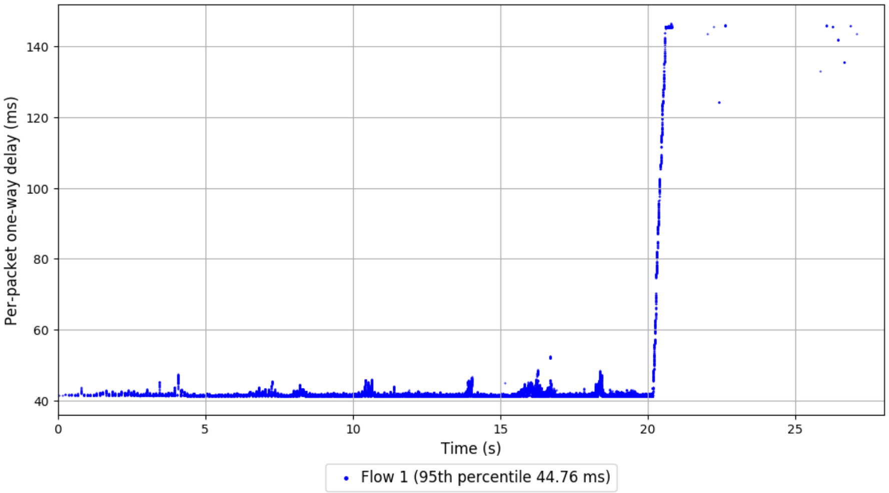
```
Run 10: Statistics of LEDBAT

Start at: 2018-05-25 04:51:01
End at: 2018-05-25 04:51:31
Local clock offset: 2.58 ms
Remote clock offset: -6.004 ms

# Below is generated by plot.py at 2018-05-25 05:02:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.58 Mbit/s
95th percentile per-packet one-way delay: 44.764 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 16.58 Mbit/s
95th percentile per-packet one-way delay: 44.764 ms
Loss rate: 0.20%
```

Run 10: Report of LEDBAT — Data Link



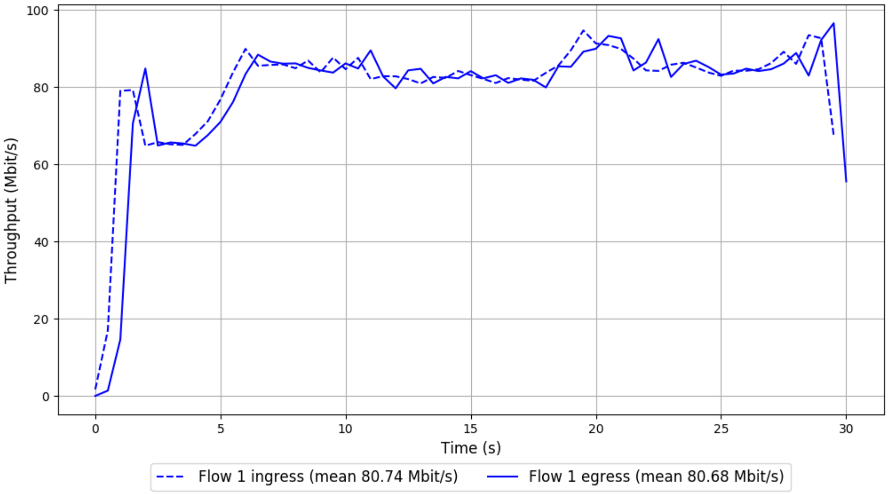


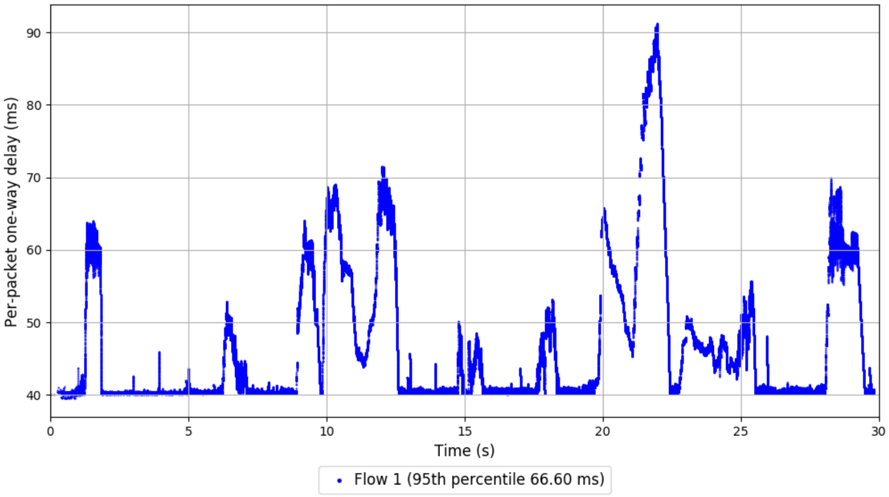
```
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 01:38:36
End at: 2018-05-25 01:39:06
Local clock offset: 0.057 ms
Remote clock offset: 0.923 ms

# Below is generated by plot.py at 2018-05-25 05:03:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.68 Mbit/s
95th percentile per-packet one-way delay: 66.599 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 80.68 Mbit/s
95th percentile per-packet one-way delay: 66.599 ms
Loss rate: 0.43%
```

Run 1: Report of PCC-Allegro — Data Link



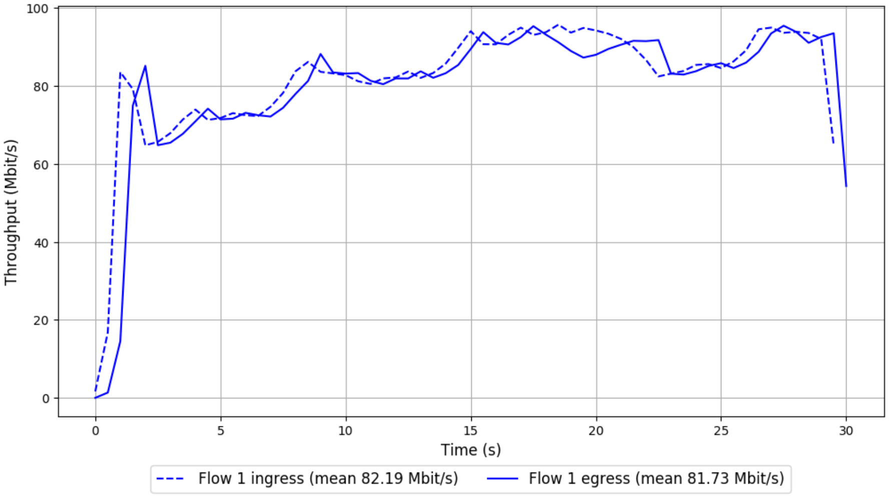


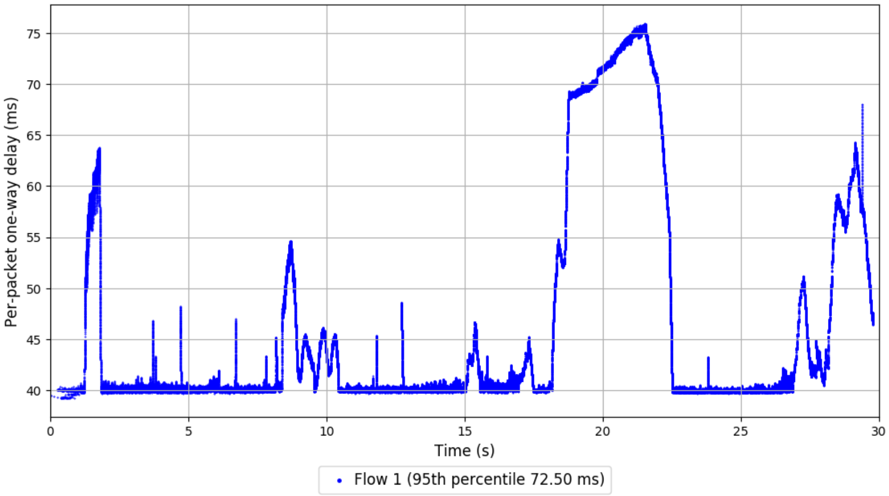
```
Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 01:59:17
End at: 2018-05-25 01:59:47
Local clock offset: -0.694 ms
Remote clock offset: 1.081 ms

# Below is generated by plot.py at 2018-05-25 05:03:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.73 Mbit/s
95th percentile per-packet one-way delay: 72.502 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 81.73 Mbit/s
95th percentile per-packet one-way delay: 72.502 ms
Loss rate: 0.92%
```

Run 2: Report of PCC-Allegro — Data Link



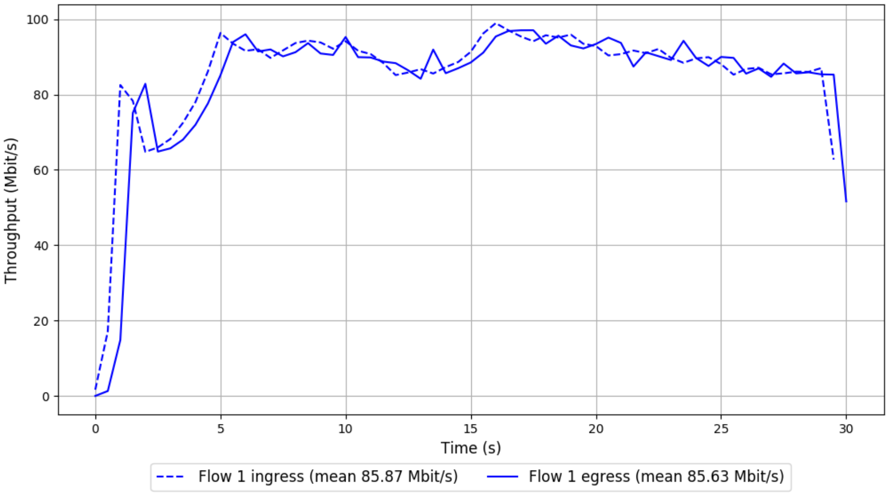


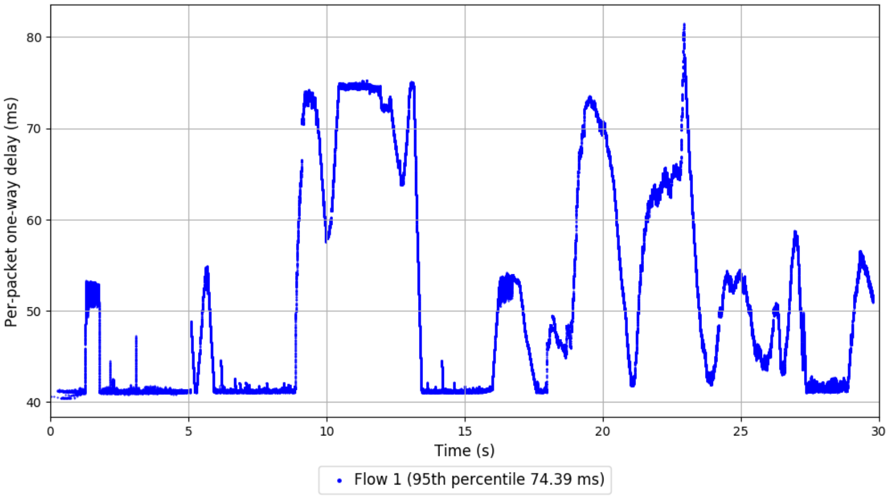
```
Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 02:19:59
End at: 2018-05-25 02:20:29
Local clock offset: 0.927 ms
Remote clock offset: 3.044 ms

# Below is generated by plot.py at 2018-05-25 05:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.63 Mbit/s
95th percentile per-packet one-way delay: 74.386 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 85.63 Mbit/s
95th percentile per-packet one-way delay: 74.386 ms
Loss rate: 0.64%
```

Run 3: Report of PCC-Allegro — Data Link



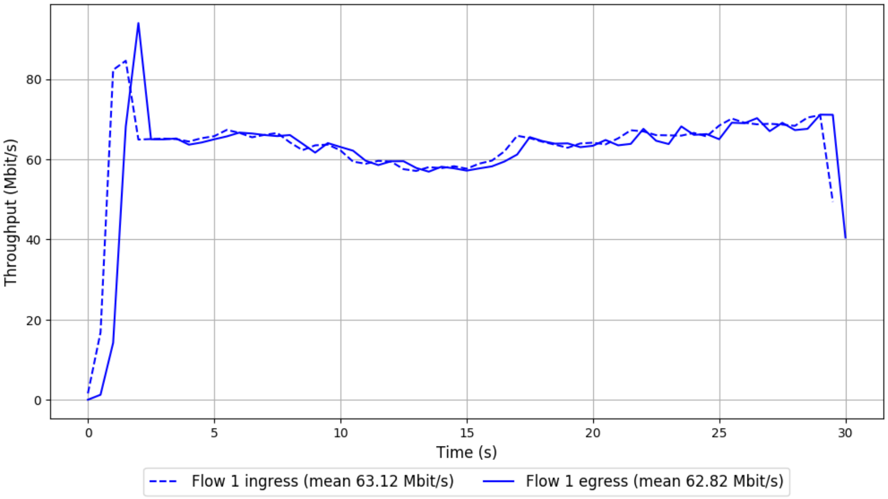


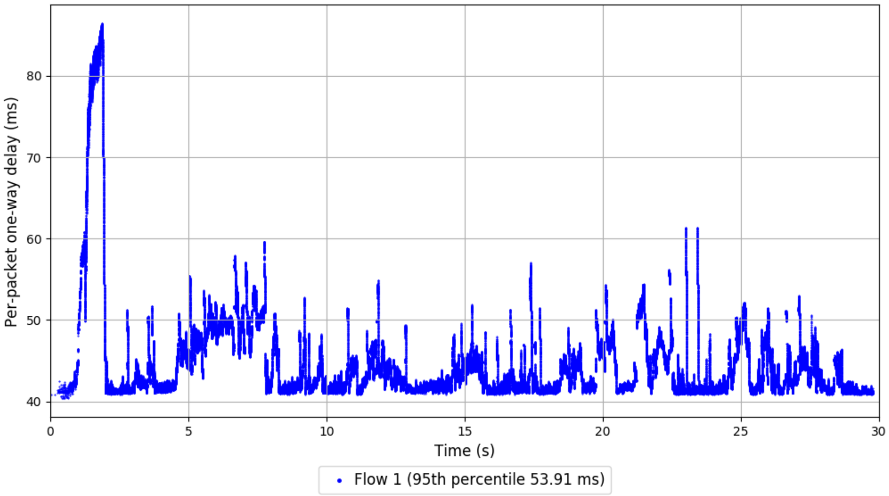
```
Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 02:40:33
End at: 2018-05-25 02:41:03
Local clock offset: 2.384 ms
Remote clock offset: 4.36 ms

# Below is generated by plot.py at 2018-05-25 05:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.82 Mbit/s
95th percentile per-packet one-way delay: 53.908 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 62.82 Mbit/s
95th percentile per-packet one-way delay: 53.908 ms
Loss rate: 0.82%
```

Run 4: Report of PCC-Allegro — Data Link



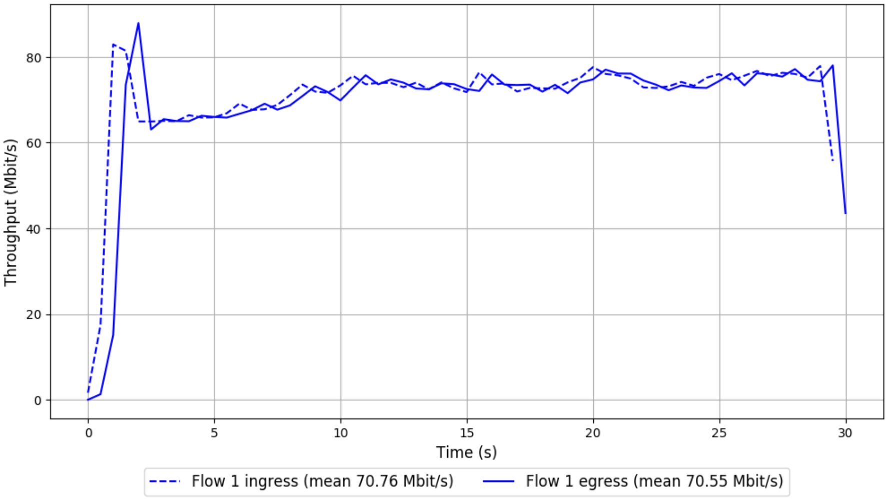


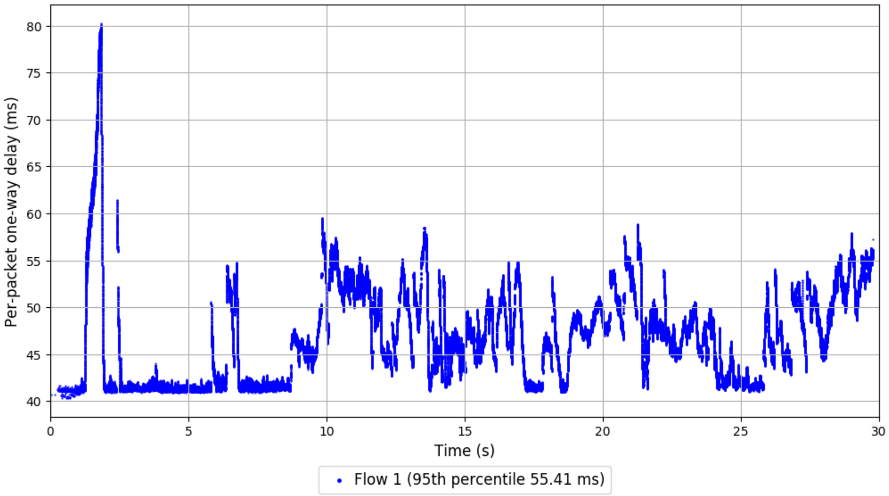
```
Run 5: Statistics of PCC-Allegro

Start at: 2018-05-25 03:01:15
End at: 2018-05-25 03:01:45
Local clock offset: 3.689 ms
Remote clock offset: 5.748 ms

# Below is generated by plot.py at 2018-05-25 05:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.55 Mbit/s
95th percentile per-packet one-way delay: 55.405 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 70.55 Mbit/s
95th percentile per-packet one-way delay: 55.405 ms
Loss rate: 0.68%
```

Run 5: Report of PCC-Allegro — Data Link



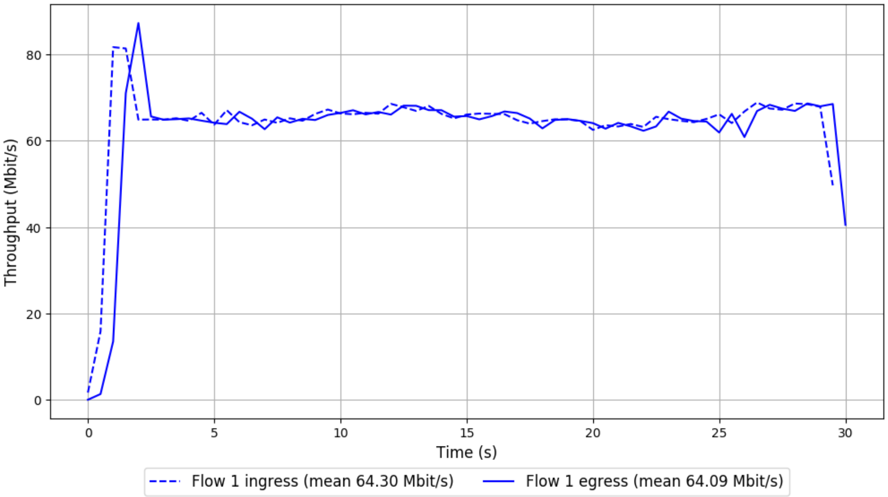


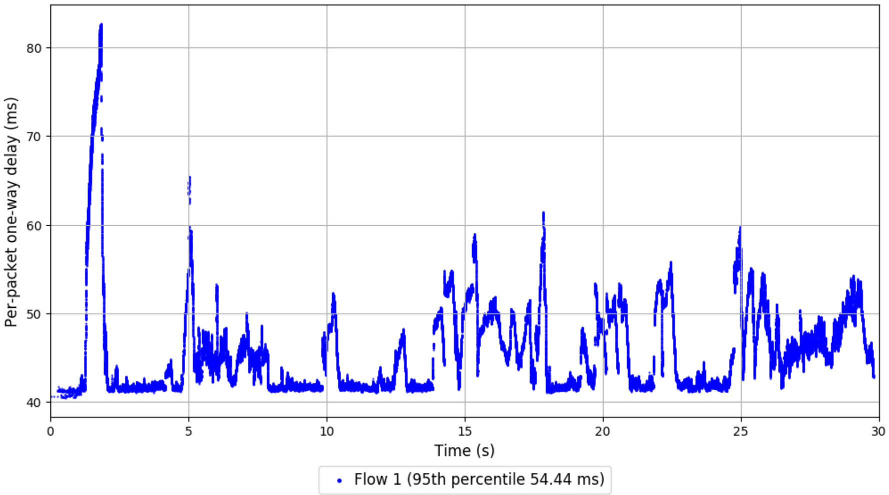
```
Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 03:21:59
End at: 2018-05-25 03:22:29
Local clock offset: 4.955 ms
Remote clock offset: 7.134 ms

# Below is generated by plot.py at 2018-05-25 05:03:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.09 Mbit/s
95th percentile per-packet one-way delay: 54.440 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 64.09 Mbit/s
95th percentile per-packet one-way delay: 54.440 ms
Loss rate: 0.71%
```

Run 6: Report of PCC-Allegro — Data Link



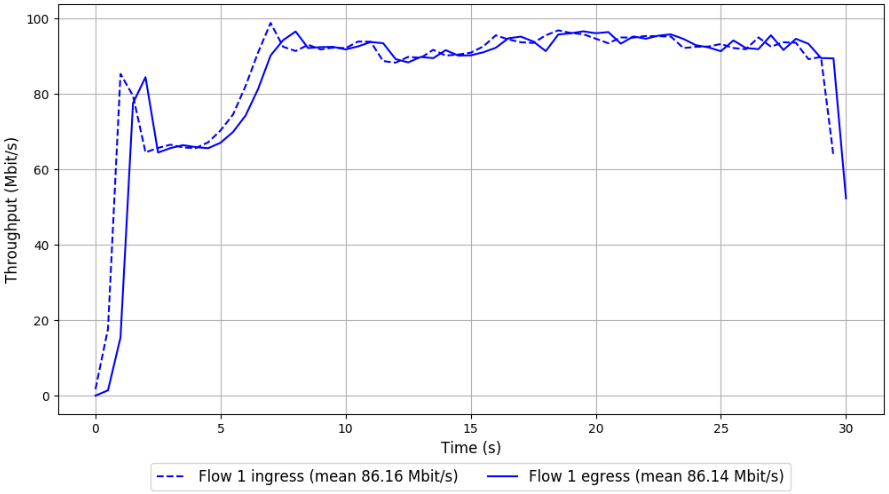


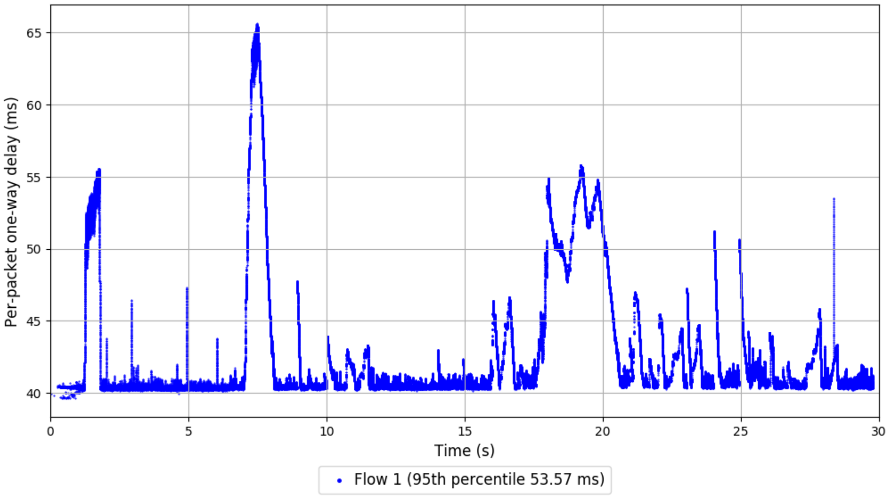
```
Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 03:43:31
End at: 2018-05-25 03:44:01
Local clock offset: 2.458 ms
Remote clock offset: 8.801 ms

# Below is generated by plot.py at 2018-05-25 05:03:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.14 Mbit/s
95th percentile per-packet one-way delay: 53.569 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 86.14 Mbit/s
95th percentile per-packet one-way delay: 53.569 ms
Loss rate: 0.37%
```

Run 7: Report of PCC-Allegro — Data Link





Run 8: Statistics of PCC-Allegro

/home/ubuntu/pantheon/data/2018-05-25T01-23-China-to-AWS-Korea-10-runs/pcc_stats_run8.log d

Run 8: Report of PCC-Allegro — Data Link

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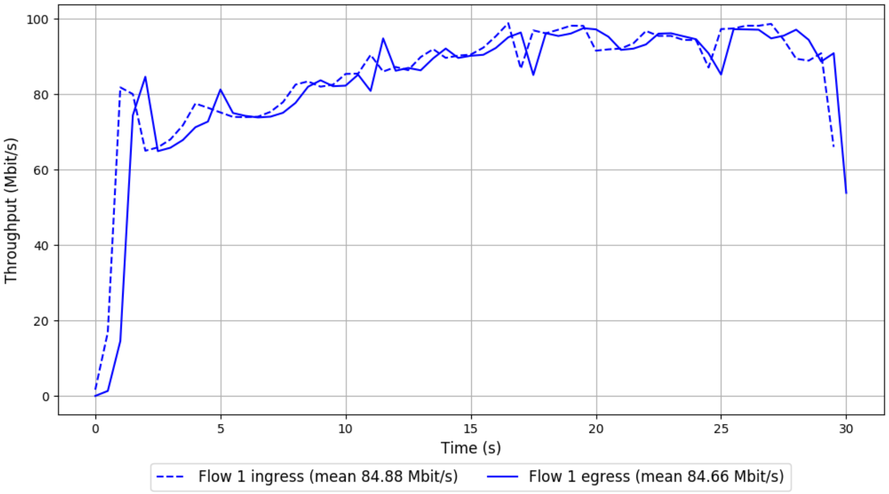
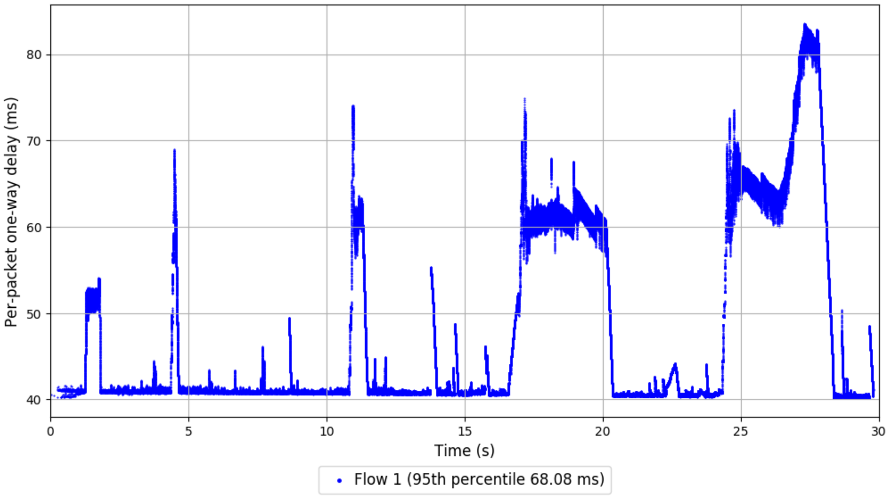
```
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-25 04:25:53
End at: 2018-05-25 04:26:23
Local clock offset: 2.293 ms
Remote clock offset: 10.048 ms

# Below is generated by plot.py at 2018-05-25 05:03:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.66 Mbit/s
95th percentile per-packet one-way delay: 68.077 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 84.66 Mbit/s
95th percentile per-packet one-way delay: 68.077 ms
Loss rate: 0.61%
```

Run 9: Report of PCC-Allegro — Data Link



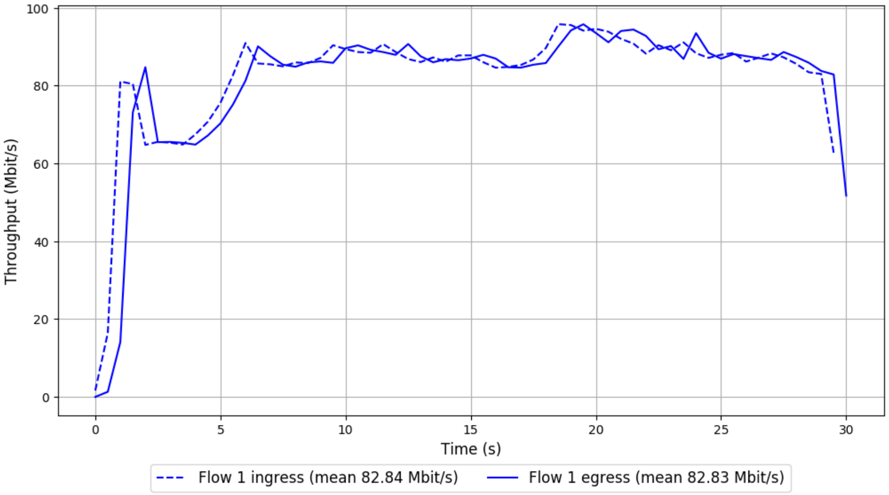


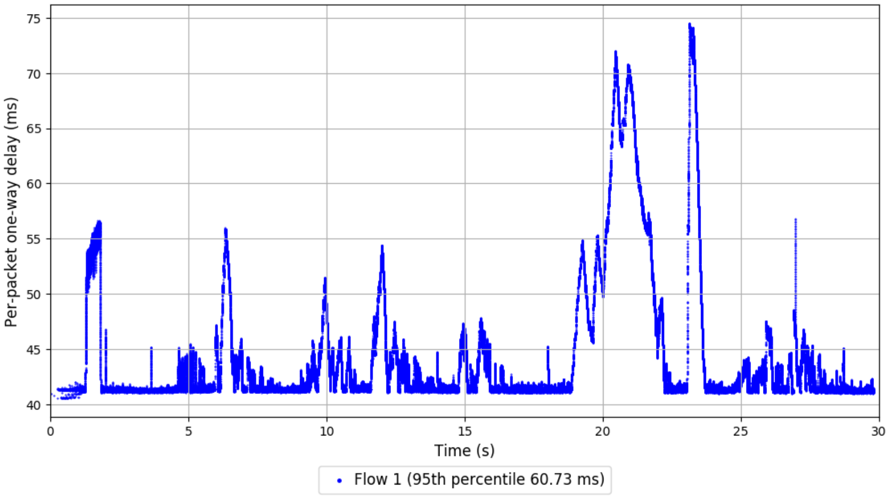
```
Run 10: Statistics of PCC-Allegro

Start at: 2018-05-25 04:47:07
End at: 2018-05-25 04:47:37
Local clock offset: 2.686 ms
Remote clock offset: -4.789 ms

# Below is generated by plot.py at 2018-05-25 05:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 82.83 Mbit/s
95th percentile per-packet one-way delay: 60.729 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 82.83 Mbit/s
95th percentile per-packet one-way delay: 60.729 ms
Loss rate: 0.36%
```

Run 10: Report of PCC-Allegro — Data Link





```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 01:32:10
End at: 2018-05-25 01:32:40
Local clock offset: 1.637 ms
Remote clock offset: 1.09 ms
```

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-25 01:52:49
End at: 2018-05-25 01:53:19
Local clock offset: -1.483 ms
Remote clock offset: 0.919 ms
```

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

```
Run 3: Statistics of PCC-Expr

Start at: 2018-05-25 02:13:31
End at: 2018-05-25 02:14:01
Local clock offset: 0.857 ms
Remote clock offset: 2.219 ms
```

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

```
Run 4: Statistics of PCC-Expr

Start at: 2018-05-25 02:34:06
End at: 2018-05-25 02:34:36
Local clock offset: 2.011 ms
Remote clock offset: 2.798 ms
```

Run 4: Report of PCC-Expr — Data Link

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```
Run 5: Statistics of PCC-Expr

Start at: 2018-05-25 02:54:50
End at: 2018-05-25 02:55:20
Local clock offset: 3.117 ms
Remote clock offset: 5.194 ms
```

Run 5: Report of PCC-Expr — Data Link

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```
Run 6: Statistics of PCC-Expr

Start at: 2018-05-25 03:15:31
End at: 2018-05-25 03:16:02
Local clock offset: 4.661 ms
Remote clock offset: 6.731 ms
```

Run 6: Report of PCC-Expr — Data Link

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```
Run 7: Statistics of PCC-Expr

Start at: 2018-05-25 03:36:59
End at: 2018-05-25 03:37:29
Local clock offset: 2.92 ms
Remote clock offset: 8.168 ms
```

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

```
Run 8: Statistics of PCC-Expr

Start at: 2018-05-25 03:57:51
End at: 2018-05-25 03:58:21
Local clock offset: 2.142 ms
Remote clock offset: 9.807 ms
```

Run 8: Report of PCC-Expr — Data Link

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```
Run 9: Statistics of PCC-Expr

Start at: 2018-05-25 04:19:27
End at: 2018-05-25 04:19:57
Local clock offset: 2.419 ms
Remote clock offset: 11.279 ms
```

Run 9: Report of PCC-Expr — Data Link

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Figure is missing

```
Run 10: Statistics of PCC-Expr

Start at: 2018-05-25 04:40:06
End at: 2018-05-25 04:40:36
Local clock offset: 2.501 ms
Remote clock offset: -1.395 ms
```

Run 10: Report of PCC-Expr — Data Link

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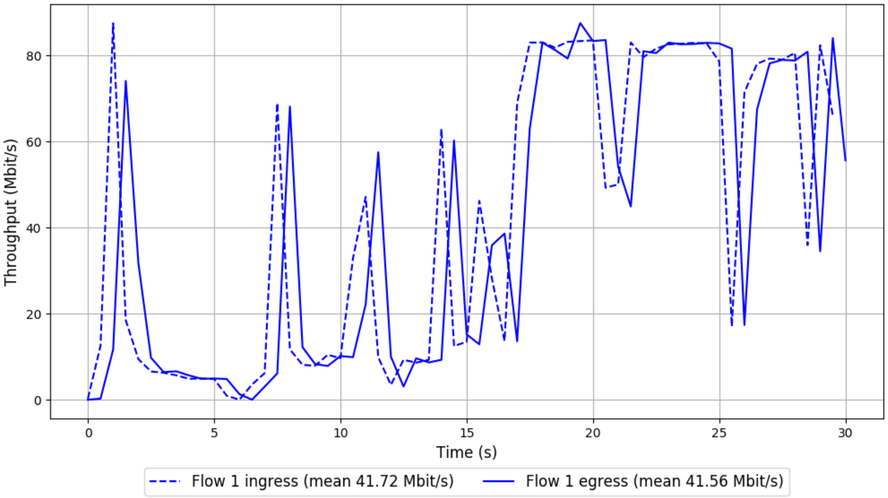
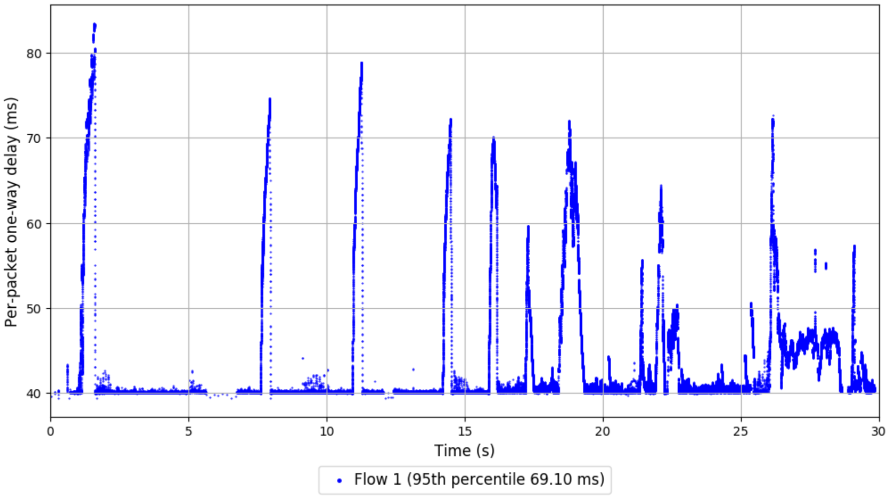
```
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-25 01:36:00
End at: 2018-05-25 01:36:30
Local clock offset: 0.481 ms
Remote clock offset: 1.172 ms

# Below is generated by plot.py at 2018-05-25 05:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.56 Mbit/s
95th percentile per-packet one-way delay: 69.097 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 41.56 Mbit/s
95th percentile per-packet one-way delay: 69.097 ms
Loss rate: 0.74%
```

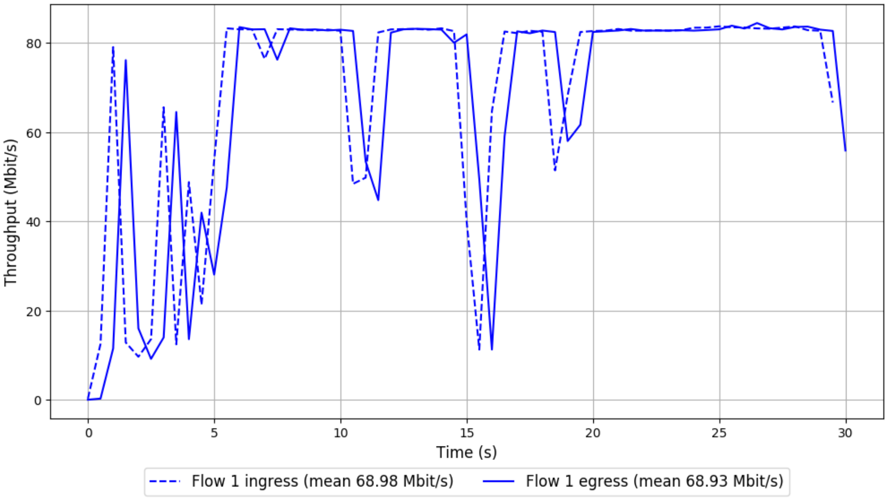
Run 1: Report of QUIC Cubic — Data Link

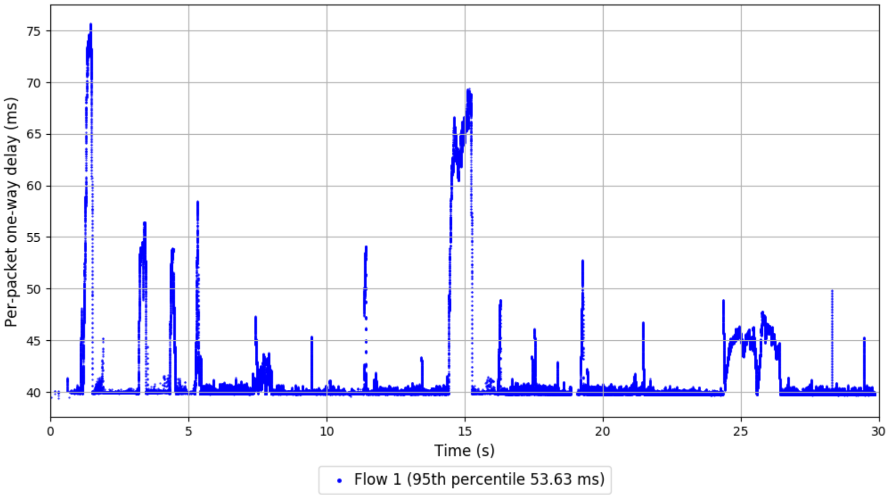




```
Run 2: Statistics of QUIC Cubic

Start at: 2018-05-25 01:56:40
End at: 2018-05-25 01:57:10
Local clock offset: -1.377 ms
Remote clock offset: 0.98 ms

# Below is generated by plot.py at 2018-05-25 05:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 68.93 Mbit/s
95th percentile per-packet one-way delay: 53.631 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 68.93 Mbit/s
95th percentile per-packet one-way delay: 53.631 ms
Loss rate: 0.43%
```

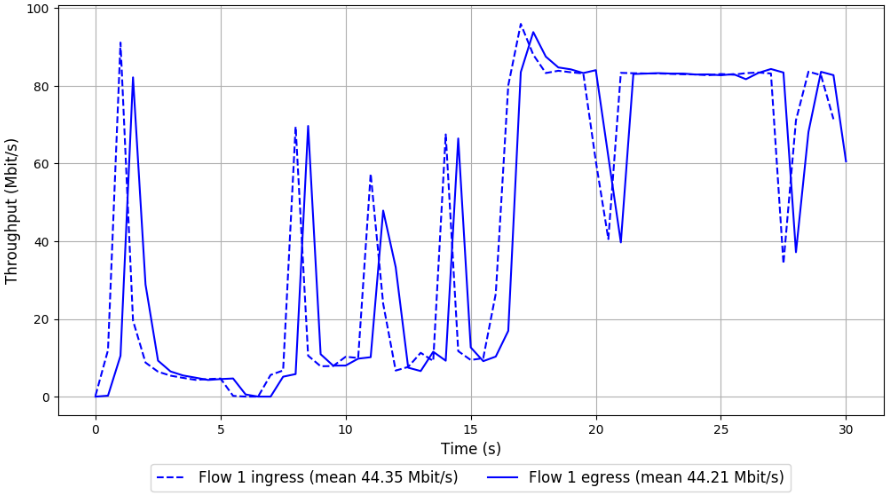
Run 2: Report of QUIC Cubic — Data Link

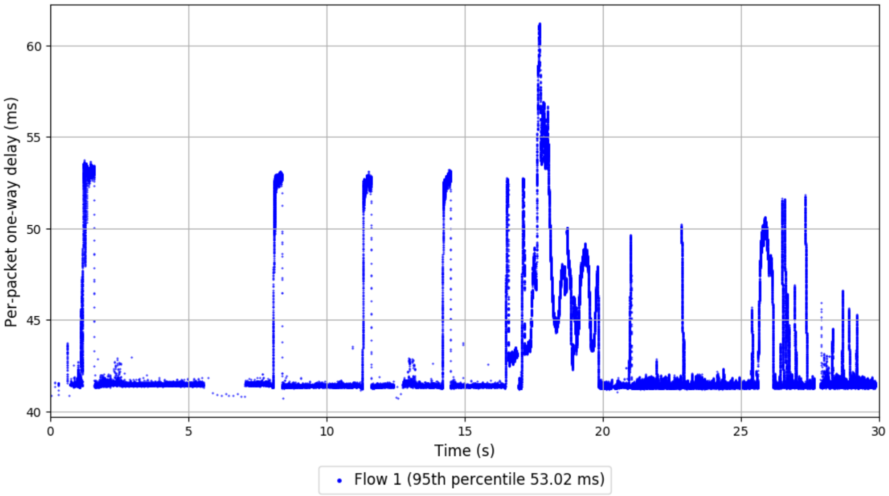




```
Run 3: Statistics of QUIC Cubic

Start at: 2018-05-25 02:17:22
End at: 2018-05-25 02:17:52
Local clock offset: 1.104 ms
Remote clock offset: 2.761 ms

# Below is generated by plot.py at 2018-05-25 05:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.21 Mbit/s
95th percentile per-packet one-way delay: 53.017 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 44.21 Mbit/s
95th percentile per-packet one-way delay: 53.017 ms
Loss rate: 0.68%
```

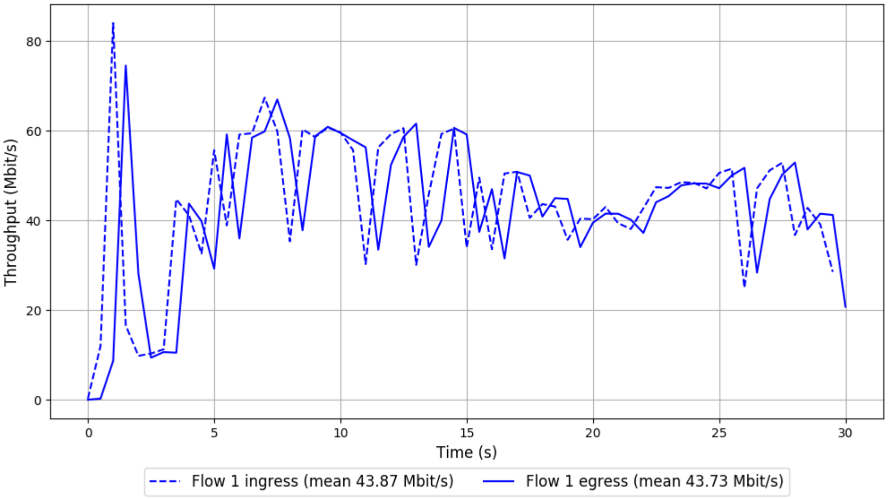
Run 3: Report of QUIC Cubic — Data Link

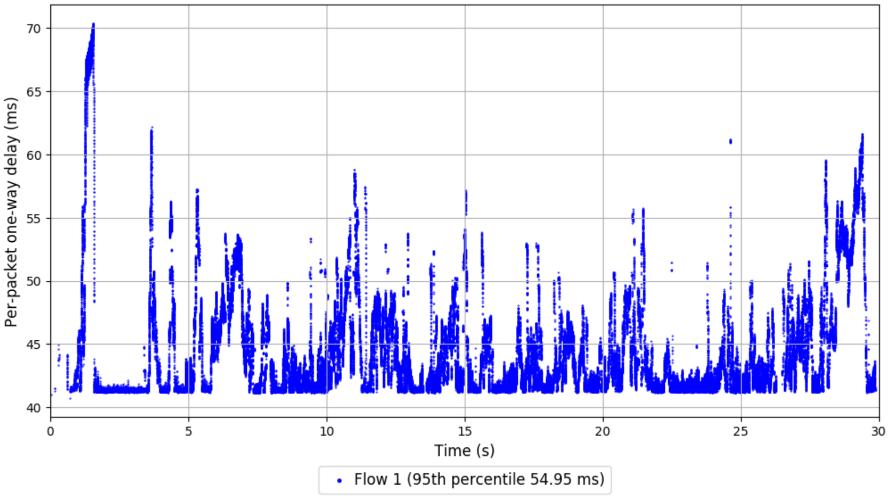




```
Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 02:37:58
End at: 2018-05-25 02:38:28
Local clock offset: 2.386 ms
Remote clock offset: 4.359 ms

# Below is generated by plot.py at 2018-05-25 05:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.73 Mbit/s
95th percentile per-packet one-way delay: 54.954 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 43.73 Mbit/s
95th percentile per-packet one-way delay: 54.954 ms
Loss rate: 0.70%
```

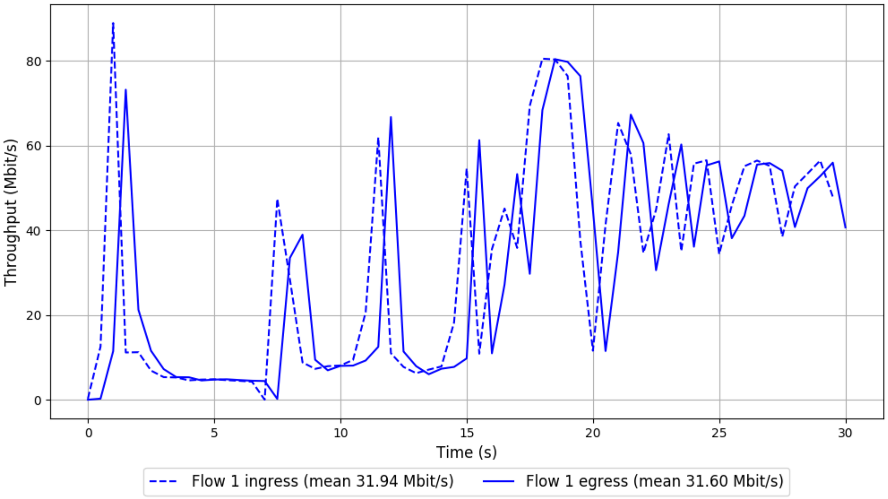
Run 4: Report of QUIC Cubic — Data Link

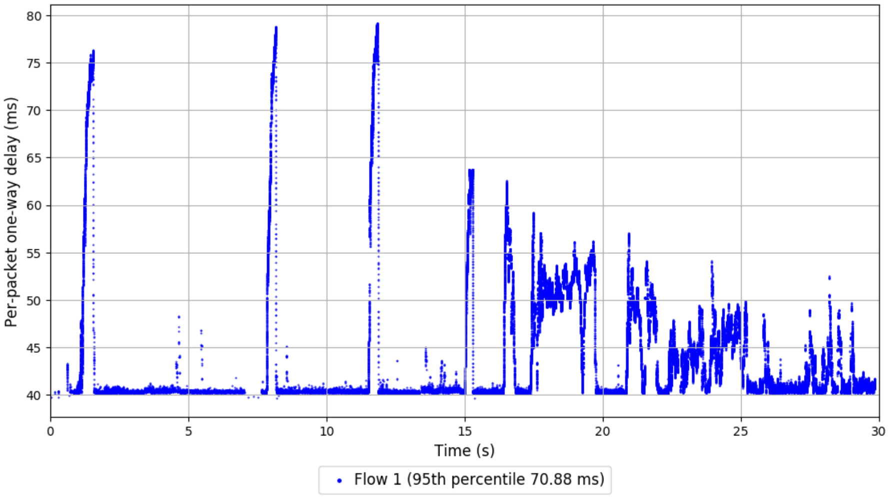




```
Run 5: Statistics of QUIC Cubic

Start at: 2018-05-25 02:58:41
End at: 2018-05-25 02:59:11
Local clock offset: 3.302 ms
Remote clock offset: 5.577 ms

# Below is generated by plot.py at 2018-05-25 05:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 70.881 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 70.881 ms
Loss rate: 1.44%
```

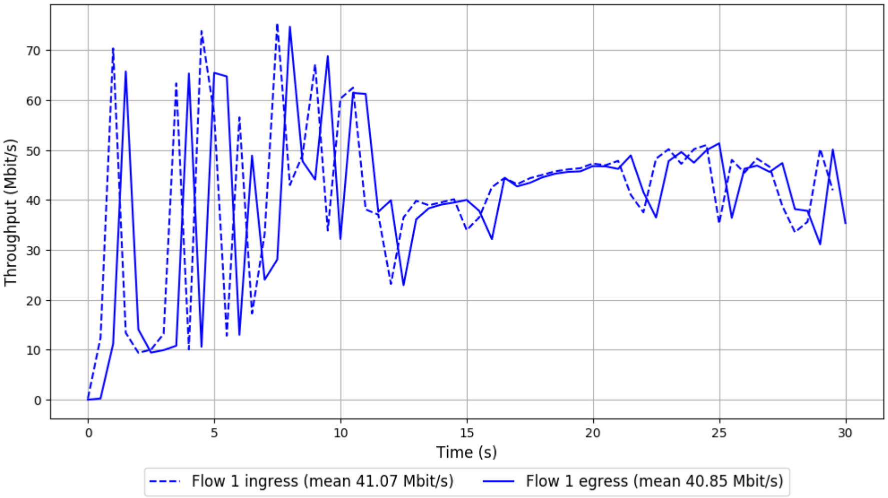
Run 5: Report of QUIC Cubic — Data Link

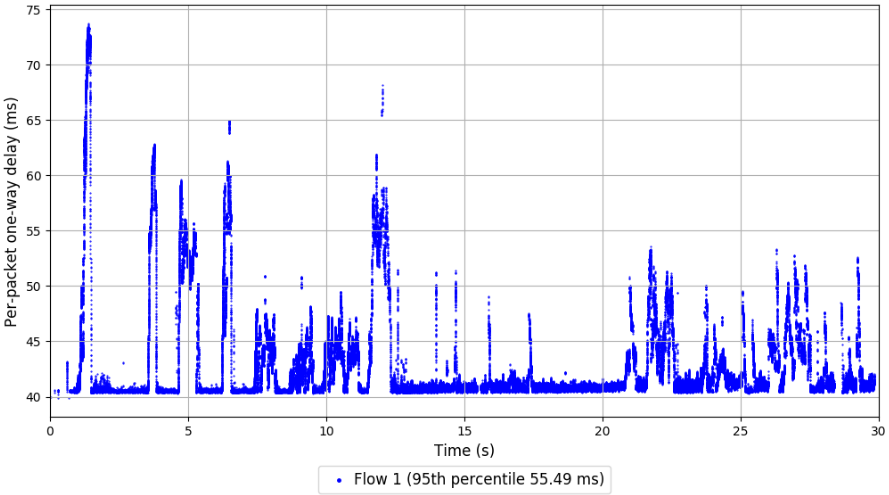




```
Run 6: Statistics of QUIC Cubic

Start at: 2018-05-25 03:19:23
End at: 2018-05-25 03:19:53
Local clock offset: 4.859 ms
Remote clock offset: 6.961 ms

# Below is generated by plot.py at 2018-05-25 05:04:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.85 Mbit/s
95th percentile per-packet one-way delay: 55.486 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 40.85 Mbit/s
95th percentile per-packet one-way delay: 55.486 ms
Loss rate: 0.91%
```

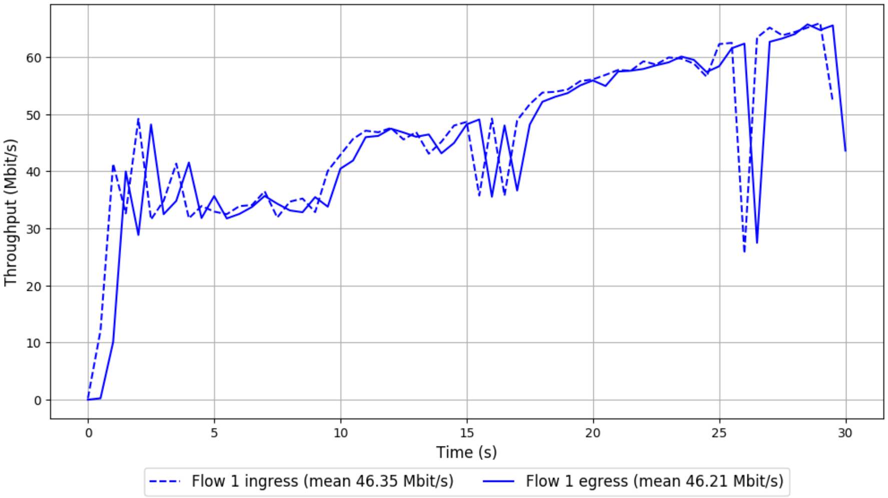
Run 6: Report of QUIC Cubic — Data Link

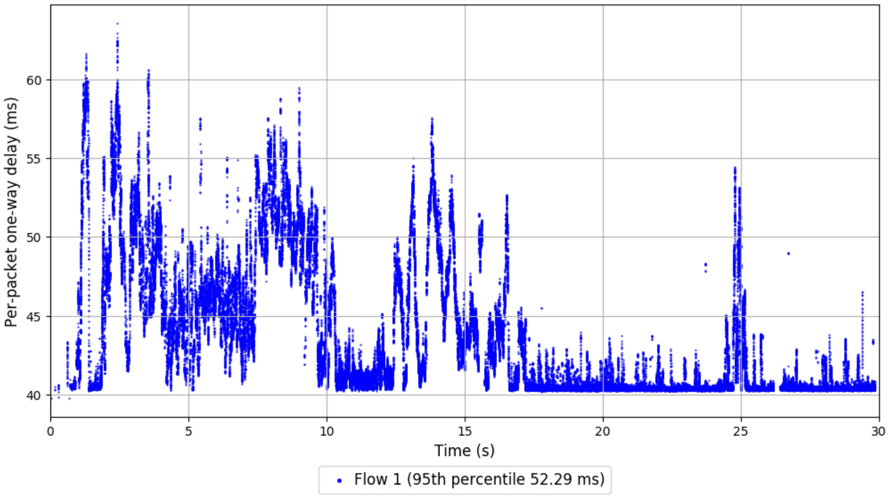




```
Run 7: Statistics of QUIC Cubic

Start at: 2018-05-25 03:40:51
End at: 2018-05-25 03:41:21
Local clock offset: 2.471 ms
Remote clock offset: 8.516 ms

# Below is generated by plot.py at 2018-05-25 05:04:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.21 Mbit/s
95th percentile per-packet one-way delay: 52.288 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 46.21 Mbit/s
95th percentile per-packet one-way delay: 52.288 ms
Loss rate: 0.66%
```

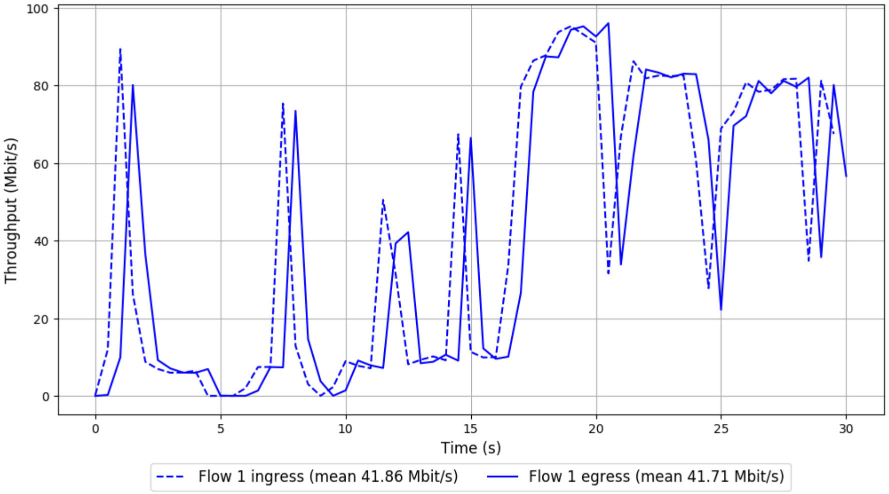
Run 7: Report of QUIC Cubic — Data Link

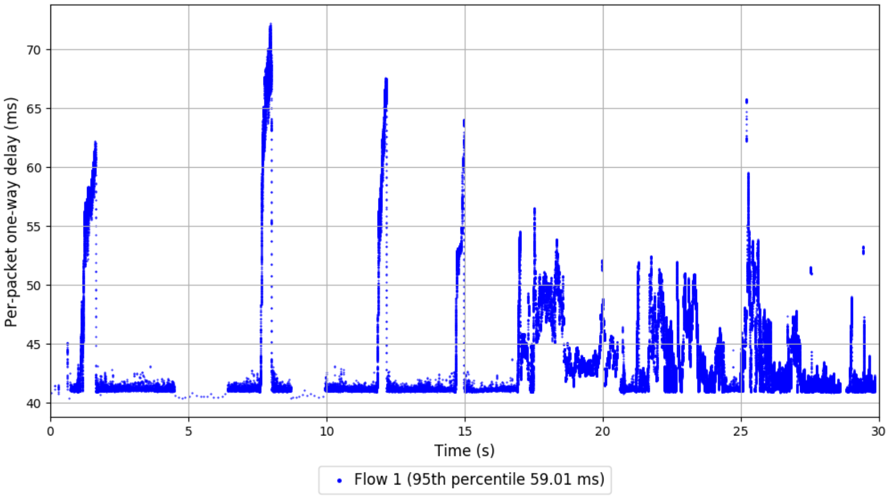




```
Run 8: Statistics of QUIC Cubic

Start at: 2018-05-25 04:01:40
End at: 2018-05-25 04:02:10
Local clock offset: 2.314 ms
Remote clock offset: 10.217 ms

# Below is generated by plot.py at 2018-05-25 05:04:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.71 Mbit/s
95th percentile per-packet one-way delay: 59.005 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 41.71 Mbit/s
95th percentile per-packet one-way delay: 59.005 ms
Loss rate: 0.72%
```

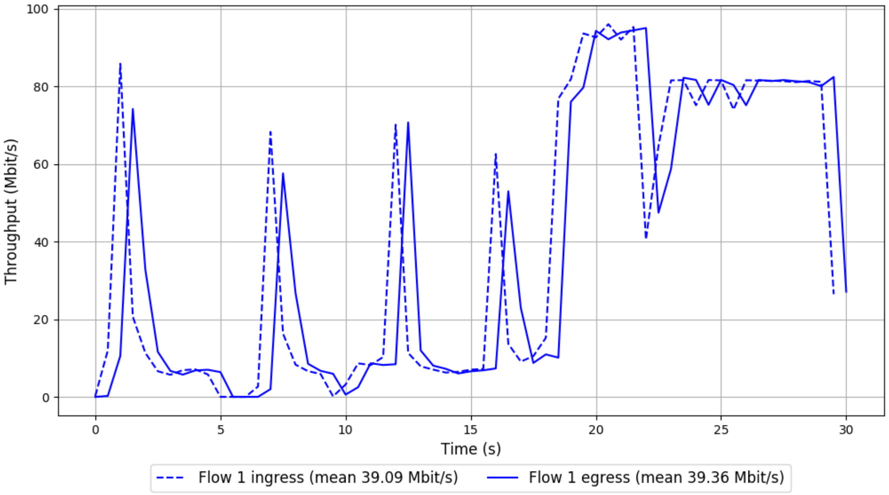
Run 8: Report of QUIC Cubic — Data Link

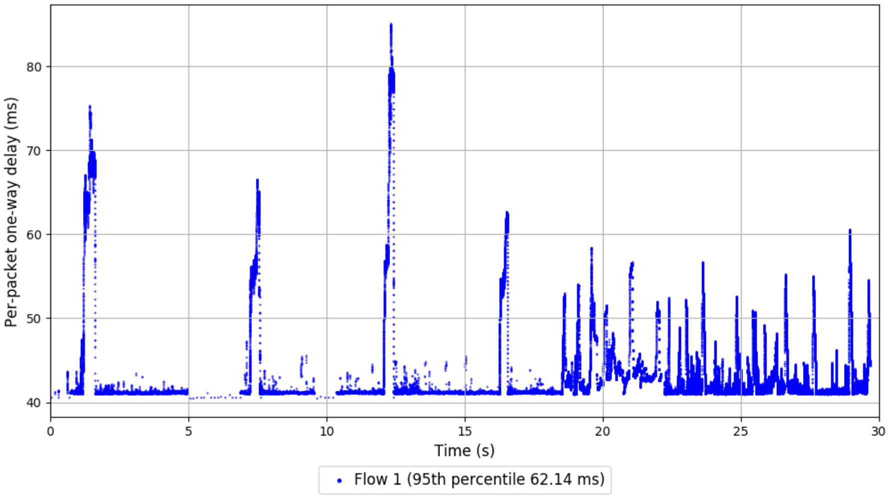




```
Run 9: Statistics of QUIC Cubic

Start at: 2018-05-25 04:23:17
End at: 2018-05-25 04:23:47
Local clock offset: 2.172 ms
Remote clock offset: 11.703 ms

# Below is generated by plot.py at 2018-05-25 05:04:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.36 Mbit/s
95th percentile per-packet one-way delay: 62.137 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 39.36 Mbit/s
95th percentile per-packet one-way delay: 62.137 ms
Loss rate: 0.29%
```

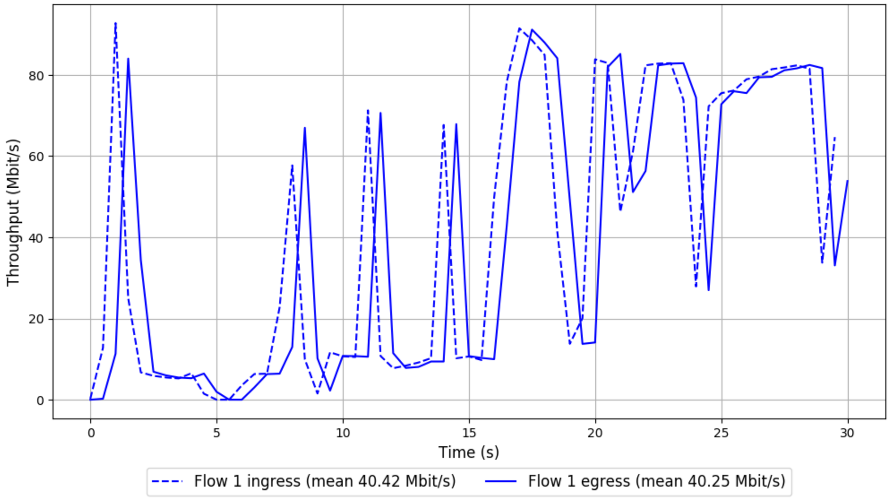
Run 9: Report of QUIC Cubic — Data Link

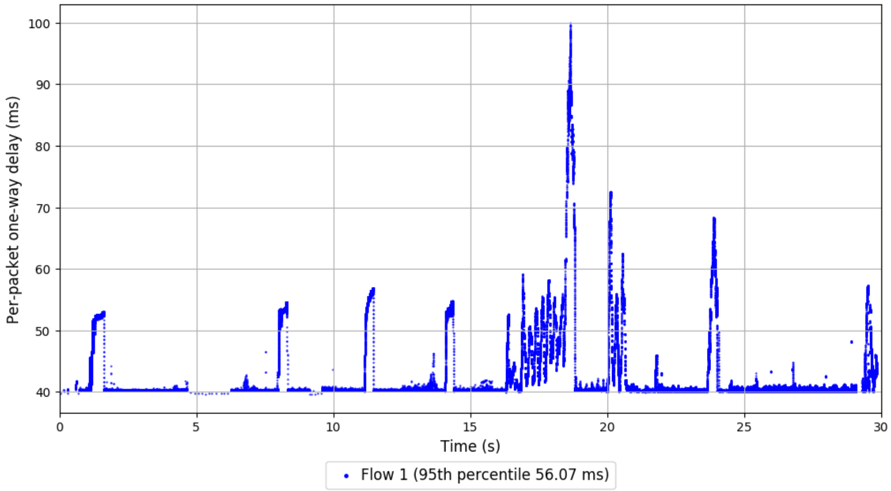




```
Run 10: Statistics of QUIC Cubic

Start at: 2018-05-25 04:44:31
End at: 2018-05-25 04:45:01
Local clock offset: 2.485 ms
Remote clock offset: -2.978 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.25 Mbit/s
95th percentile per-packet one-way delay: 56.074 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 40.25 Mbit/s
95th percentile per-packet one-way delay: 56.074 ms
Loss rate: 0.79%
```

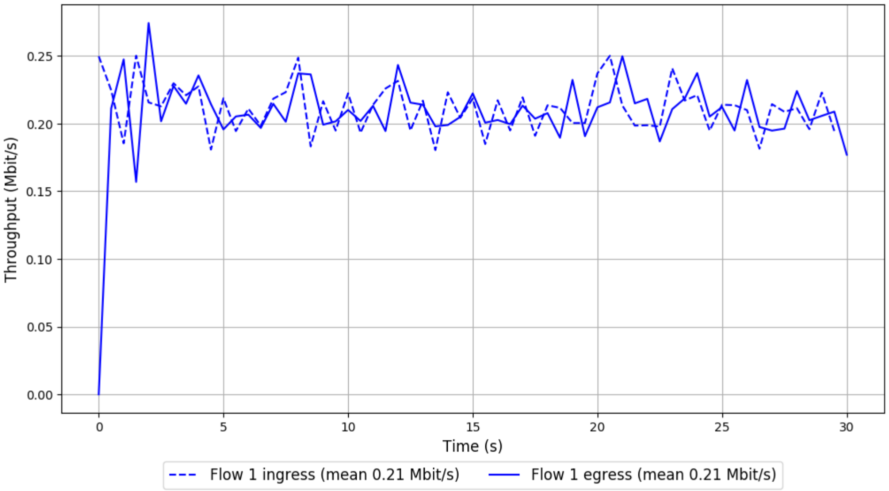
Run 10: Report of QUIC Cubic — Data Link

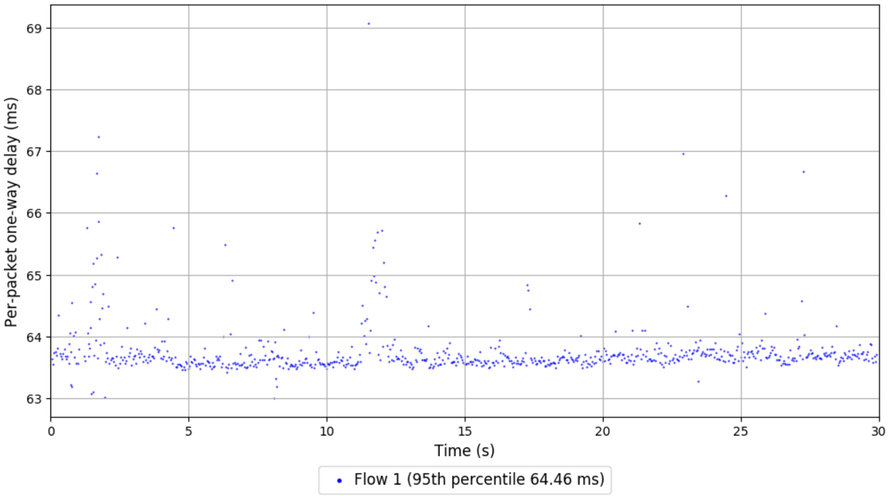




```
Run 1: Statistics of SCReAM

Start at: 2018-05-25 01:33:25
End at: 2018-05-25 01:33:55
Local clock offset: 1.266 ms
Remote clock offset: -20.838 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 64.459 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 64.459 ms
Loss rate: 0.39%
```

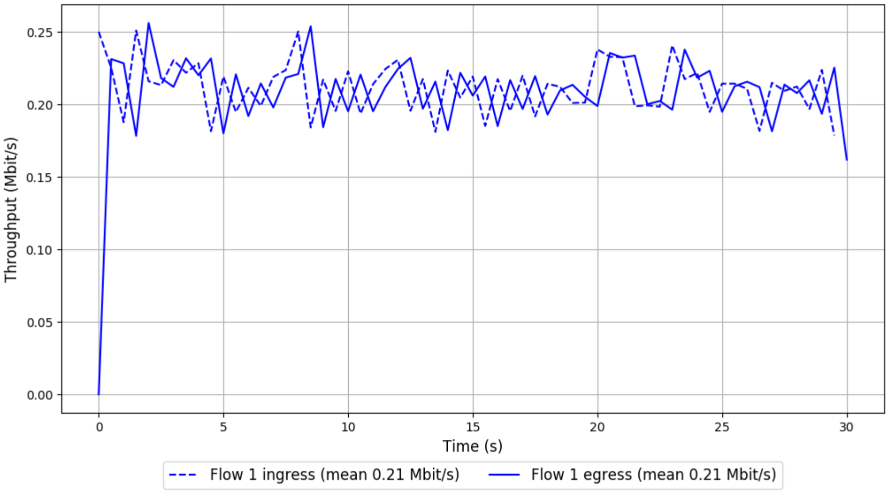
Run 1: Report of SCReAM — Data Link

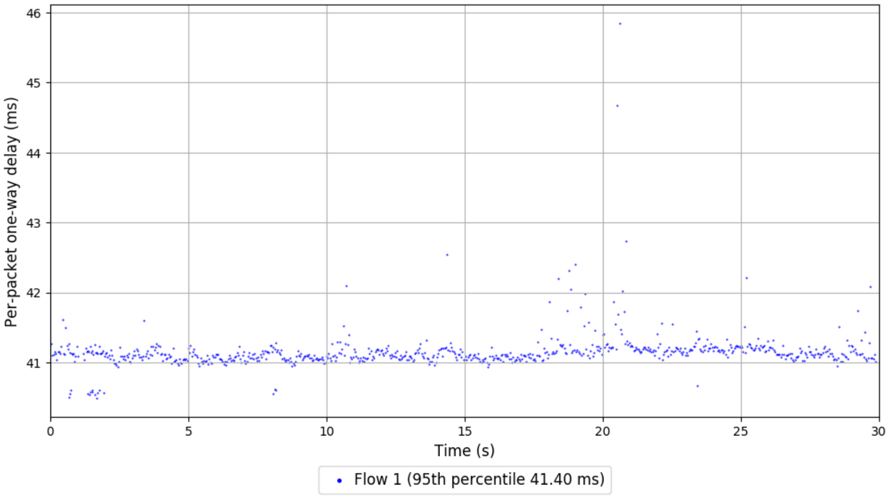




```
Run 2: Statistics of SCReAM

Start at: 2018-05-25 01:54:04
End at: 2018-05-25 01:54:34
Local clock offset: -1.579 ms
Remote clock offset: 0.863 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 41.404 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 41.404 ms
Loss rate: 0.26%
```

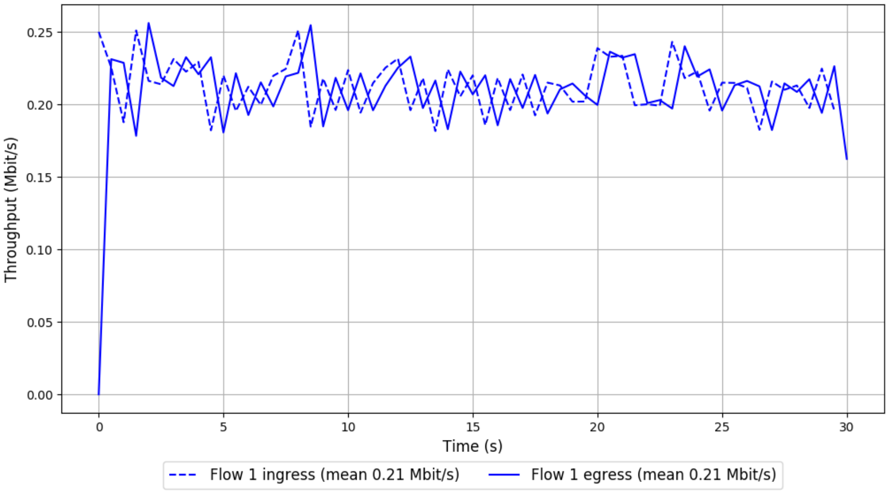
Run 2: Report of SCReAM — Data Link

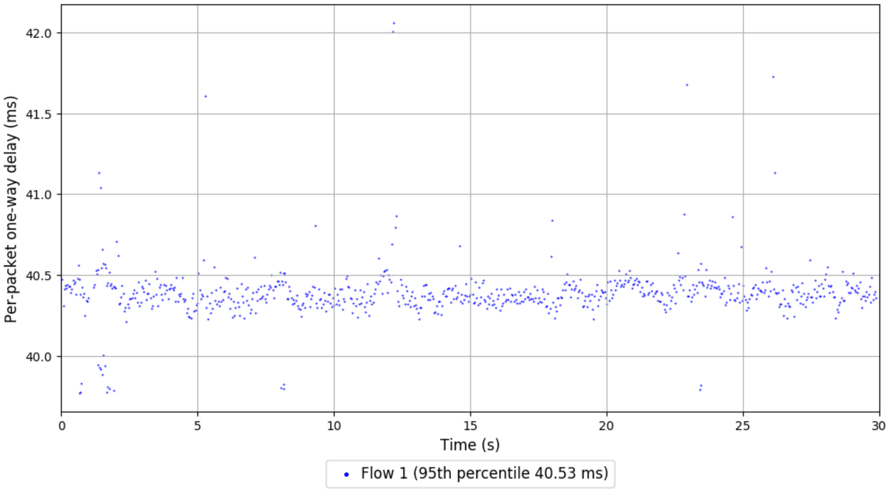




```
Run 3: Statistics of SCReAM

Start at: 2018-05-25 02:14:46
End at: 2018-05-25 02:15:16
Local clock offset: 0.838 ms
Remote clock offset: 2.309 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.531 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.531 ms
Loss rate: 0.39%
```

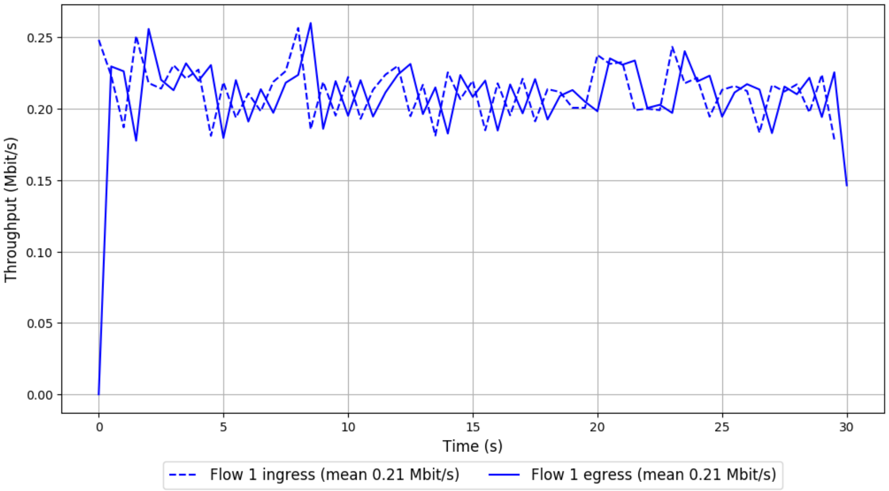
Run 3: Report of SCReAM — Data Link

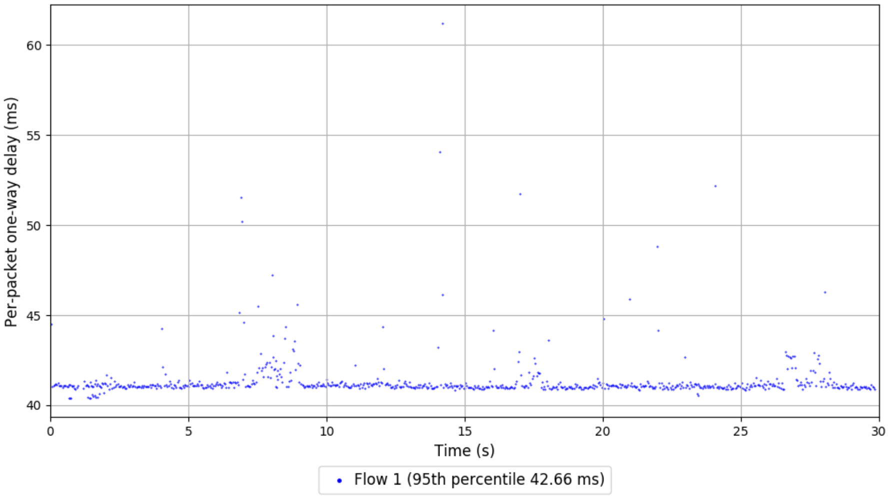




```
Run 4: Statistics of SCReAM

Start at: 2018-05-25 02:35:21
End at: 2018-05-25 02:35:51
Local clock offset: 2.223 ms
Remote clock offset: 4.228 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 42.660 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 42.660 ms
Loss rate: 0.38%
```

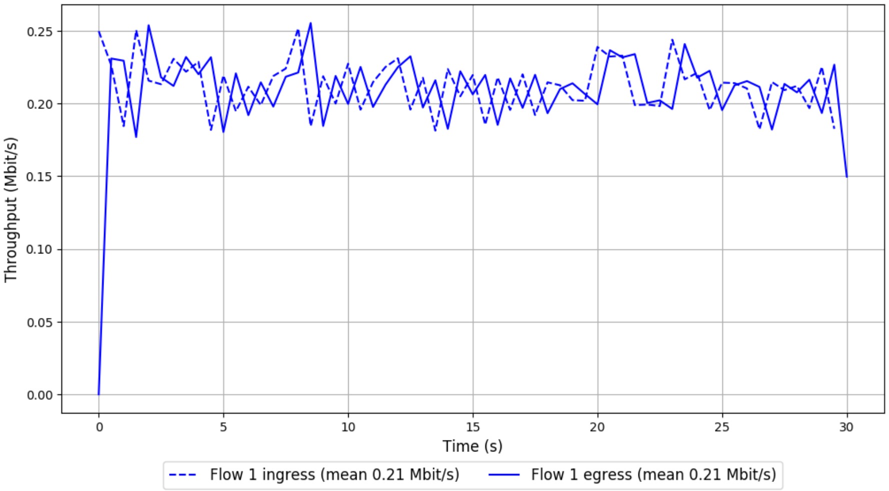
Run 4: Report of SCReAM — Data Link

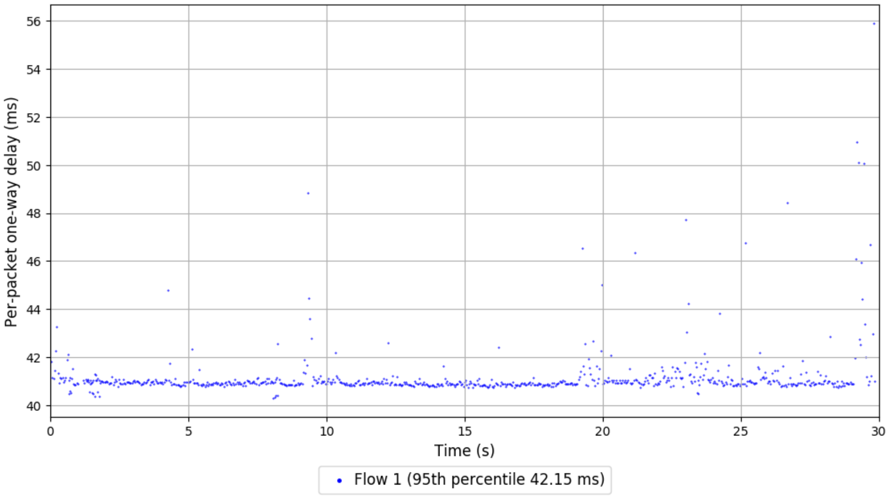




```
Run 5: Statistics of SCReAM

Start at: 2018-05-25 02:56:05
End at: 2018-05-25 02:56:35
Local clock offset: 3.043 ms
Remote clock offset: 5.475 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 42.147 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 42.147 ms
Loss rate: 0.39%
```

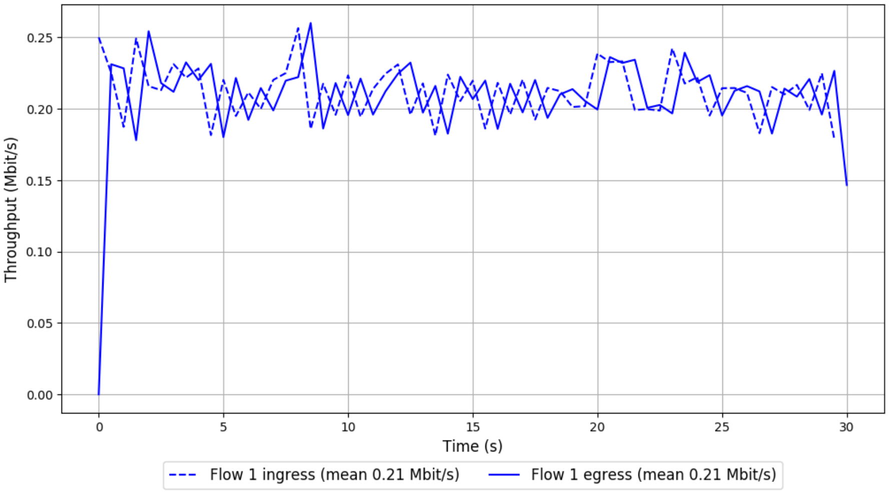
Run 5: Report of SCReAM — Data Link

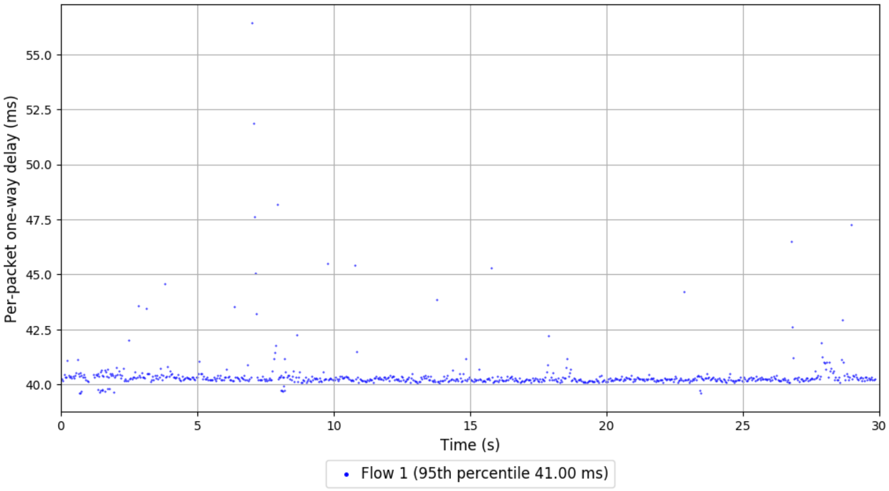




```
Run 6: Statistics of SCReAM

Start at: 2018-05-25 03:16:46
End at: 2018-05-25 03:17:16
Local clock offset: 4.725 ms
Remote clock offset: 6.791 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 41.003 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 41.003 ms
Loss rate: 0.38%
```

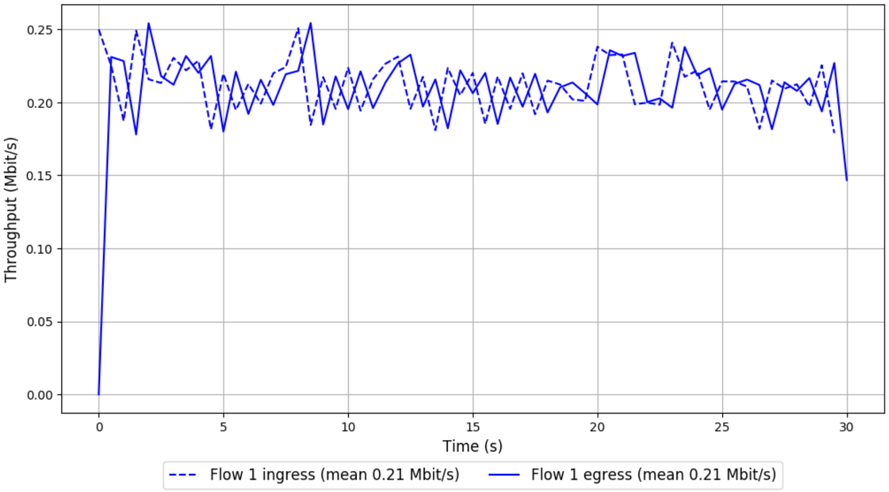
Run 6: Report of SCReAM — Data Link

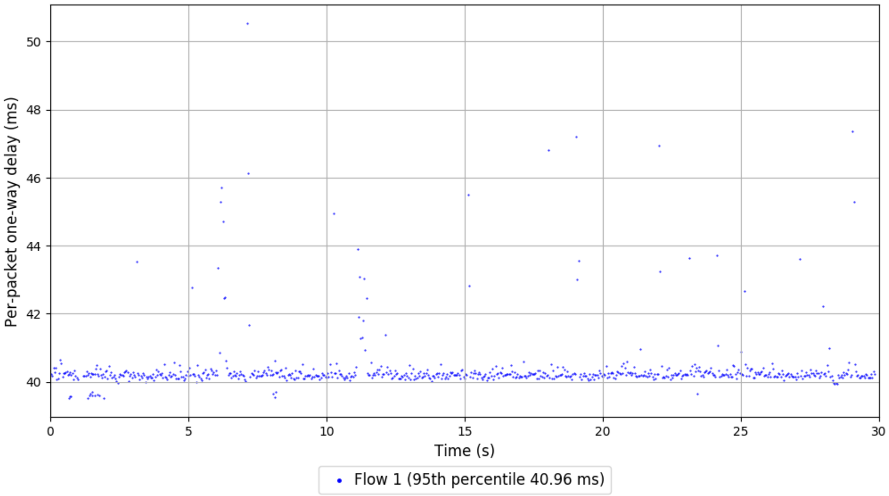




```
Run 7: Statistics of SCReAM

Start at: 2018-05-25 03:38:14
End at: 2018-05-25 03:38:44
Local clock offset: 2.676 ms
Remote clock offset: 8.297 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.963 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 40.963 ms
Loss rate: 0.38%
```

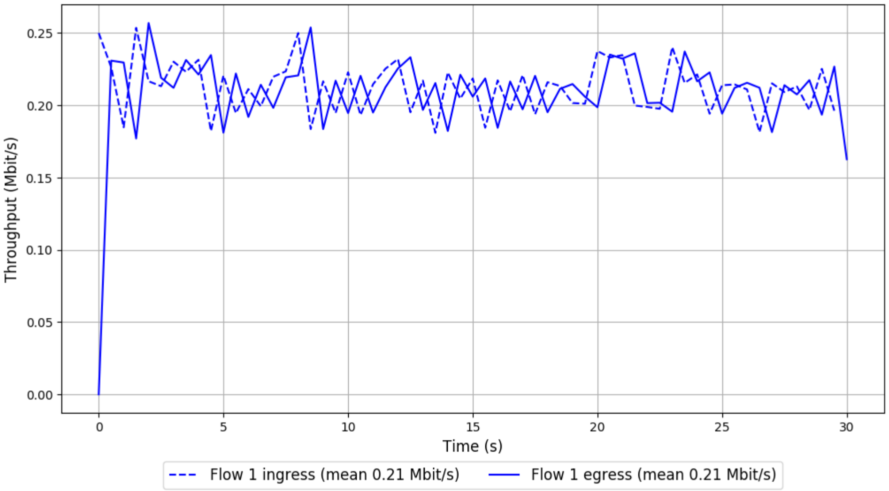
Run 7: Report of SCReAM — Data Link

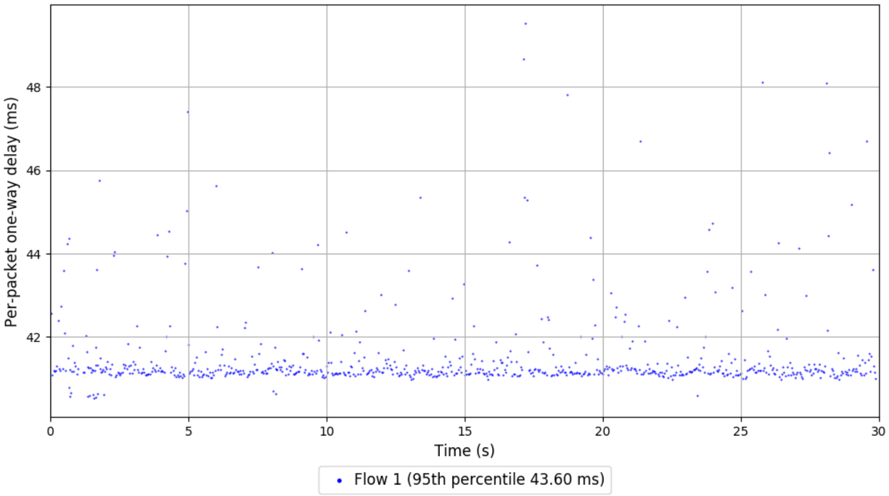




```
Run 8: Statistics of SCReAM

Start at: 2018-05-25 03:59:06
End at: 2018-05-25 03:59:36
Local clock offset: 2.017 ms
Remote clock offset: 9.925 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 43.599 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 43.599 ms
Loss rate: 0.39%
```

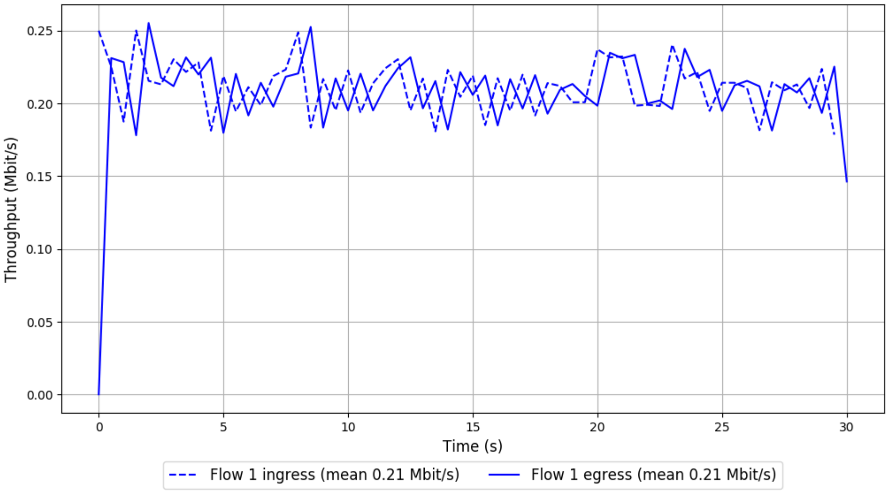
Run 8: Report of SCReAM — Data Link

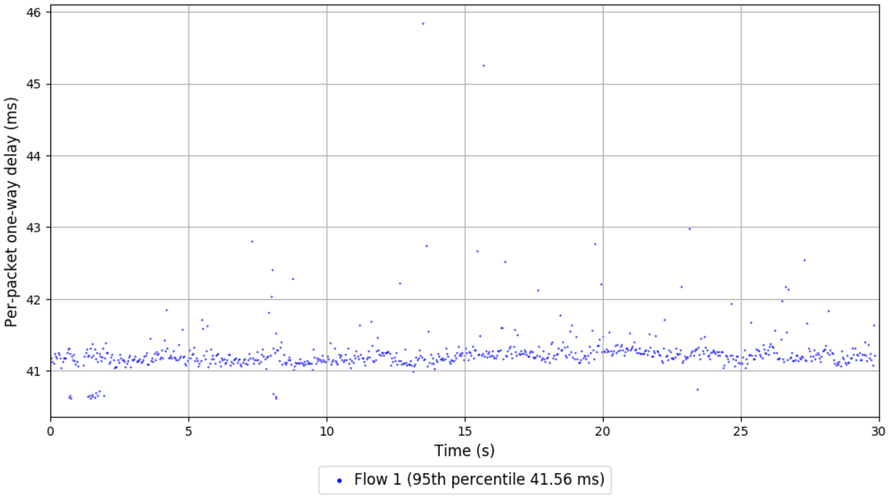




```
Run 9: Statistics of SCReAM

Start at: 2018-05-25 04:20:42
End at: 2018-05-25 04:21:12
Local clock offset: 2.138 ms
Remote clock offset: 11.412 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 41.564 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 41.564 ms
Loss rate: 0.38%
```

Run 9: Report of SCReAM — Data Link





```
Run 10: Statistics of SCReAM

/home/ubuntu/pantheon/data/2018-05-25T01-23-China-to-AWS-Korea-10-runs/scream_stats_run10.lo
```

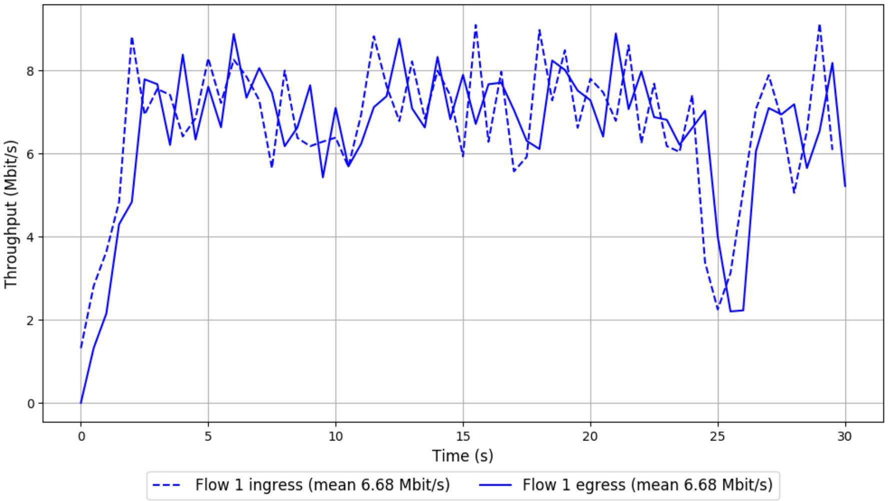
Run 10: Report of SCReAM — Data Link

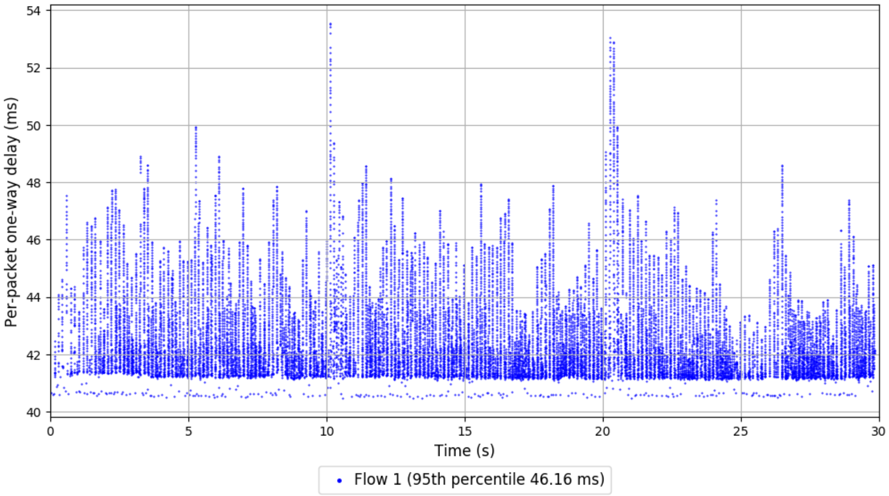
Figure is missing

Figure is missing

```
Run 1: Statistics of Sprout

Start at: 2018-05-25 01:24:26
End at: 2018-05-25 01:24:56
Local clock offset: 4.385 ms
Remote clock offset: 0.855 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 46.157 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 6.68 Mbit/s
95th percentile per-packet one-way delay: 46.157 ms
Loss rate: 0.46%
```

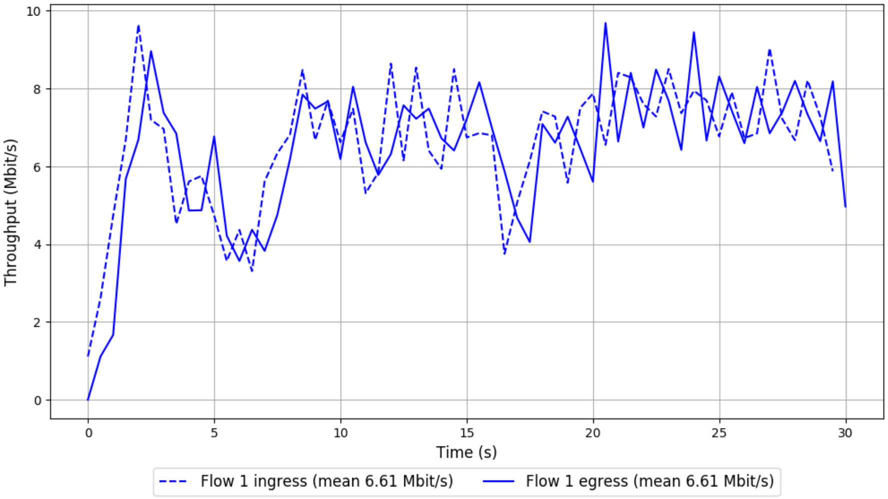
Run 1: Report of Sprout — Data Link

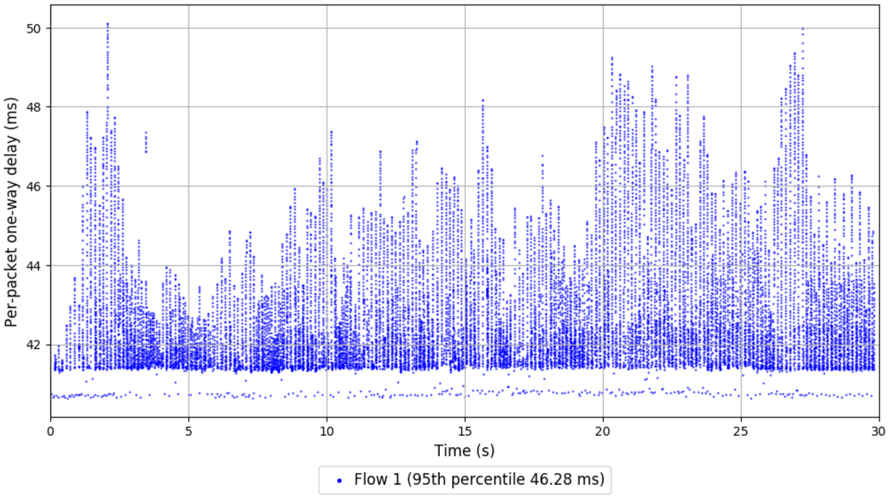




```
Run 2: Statistics of Sprout

Start at: 2018-05-25 01:45:06
End at: 2018-05-25 01:45:36
Local clock offset: -0.833 ms
Remote clock offset: 0.873 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 46.279 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 6.61 Mbit/s
95th percentile per-packet one-way delay: 46.279 ms
Loss rate: 0.40%
```

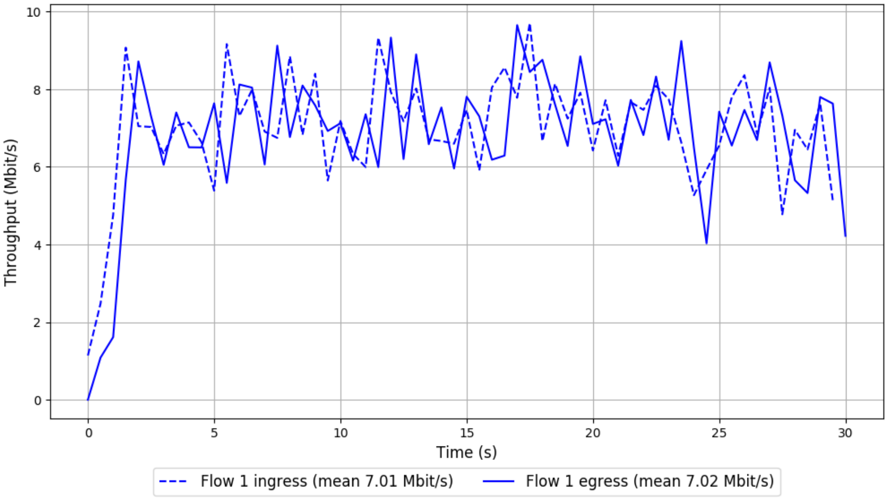
Run 2: Report of Sprout — Data Link

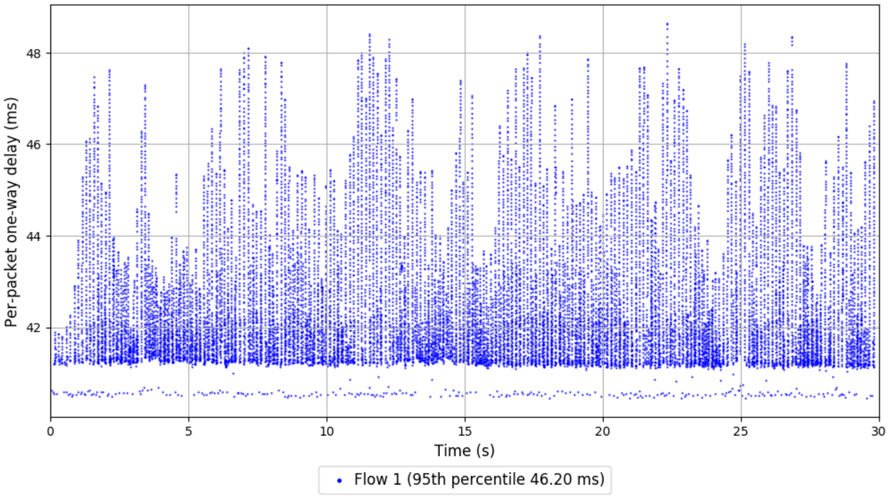




```
Run 3: Statistics of Sprout

Start at: 2018-05-25 02:05:47
End at: 2018-05-25 02:06:17
Local clock offset: 0.323 ms
Remote clock offset: 1.369 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 46.195 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 7.02 Mbit/s
95th percentile per-packet one-way delay: 46.195 ms
Loss rate: 0.28%
```

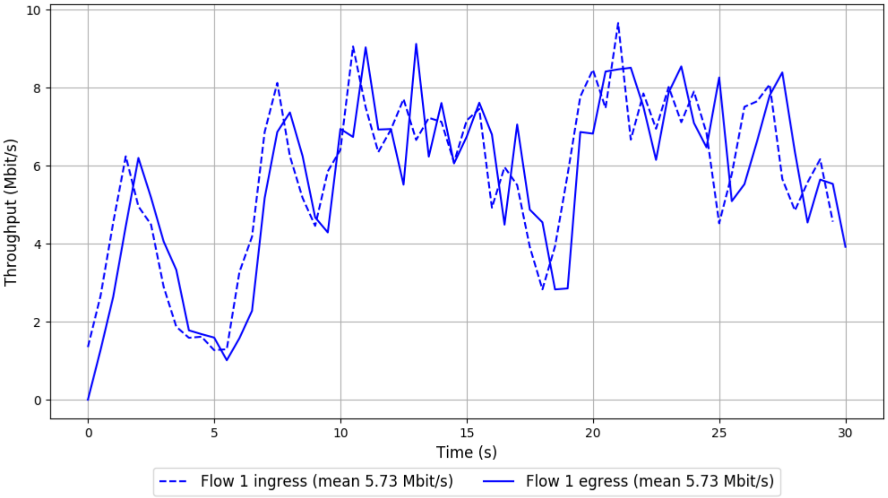
Run 3: Report of Sprout — Data Link

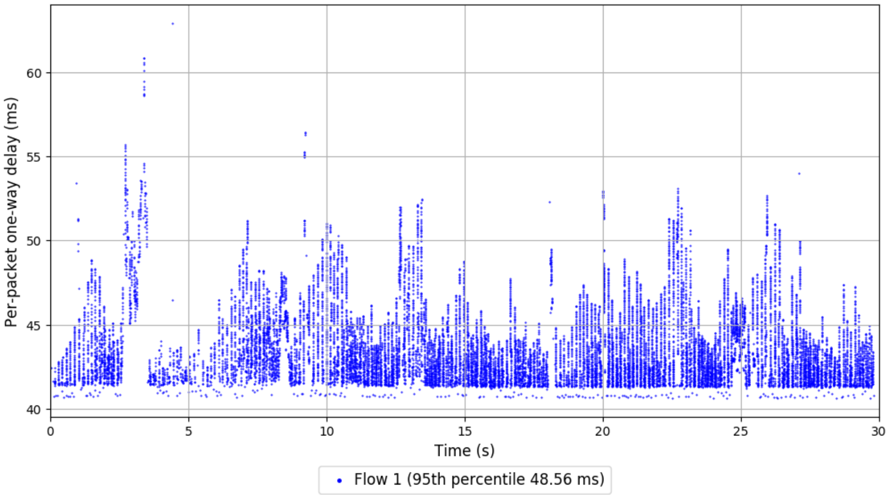




```
Run 4: Statistics of Sprout

Start at: 2018-05-25 02:26:25
End at: 2018-05-25 02:26:55
Local clock offset: 1.228 ms
Remote clock offset: 3.402 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.73 Mbit/s
95th percentile per-packet one-way delay: 48.562 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 5.73 Mbit/s
95th percentile per-packet one-way delay: 48.562 ms
Loss rate: 0.44%
```

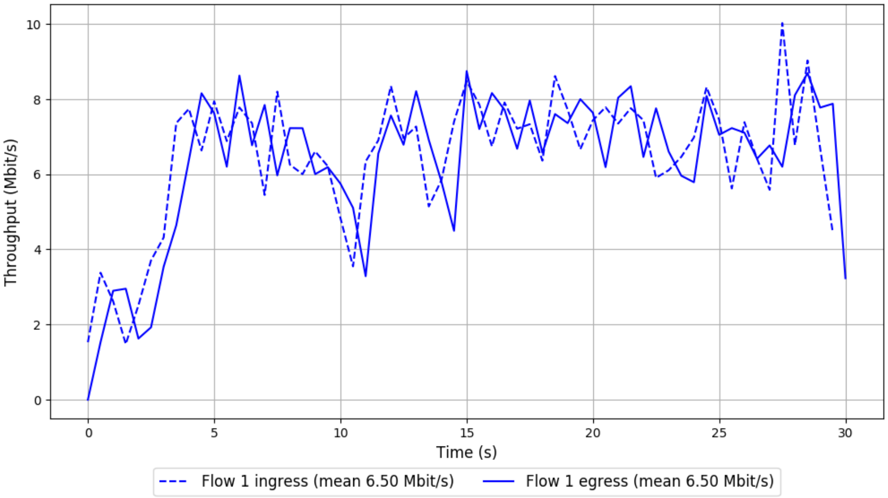
Run 4: Report of Sprout — Data Link

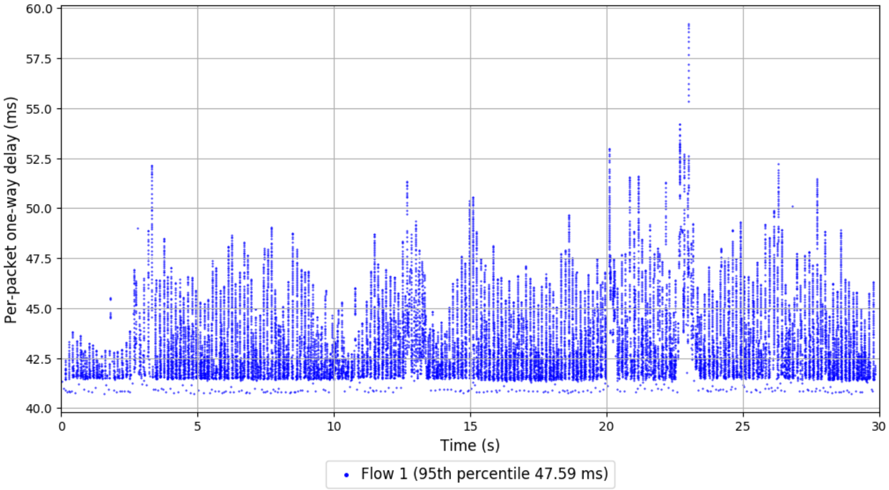




```
Run 5: Statistics of Sprout

Start at: 2018-05-25 02:47:06
End at: 2018-05-25 02:47:36
Local clock offset: 2.761 ms
Remote clock offset: 4.855 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.50 Mbit/s
95th percentile per-packet one-way delay: 47.588 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 6.50 Mbit/s
95th percentile per-packet one-way delay: 47.588 ms
Loss rate: 0.33%
```

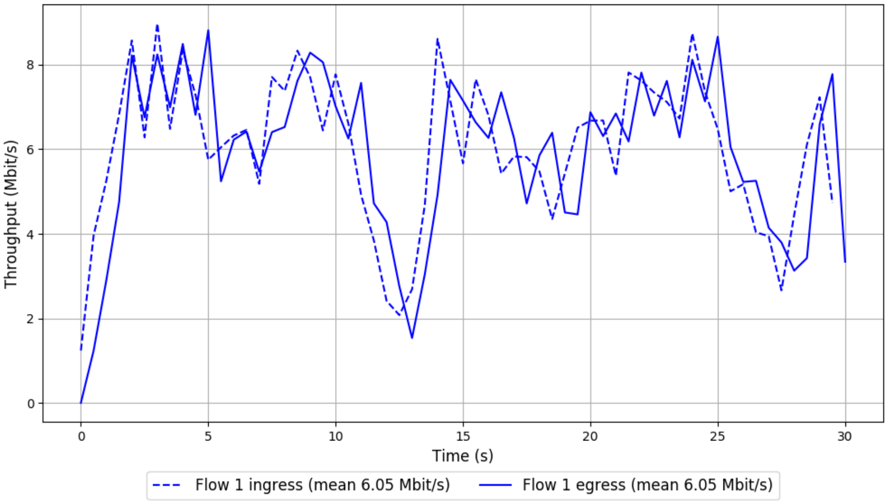
Run 5: Report of Sprout — Data Link

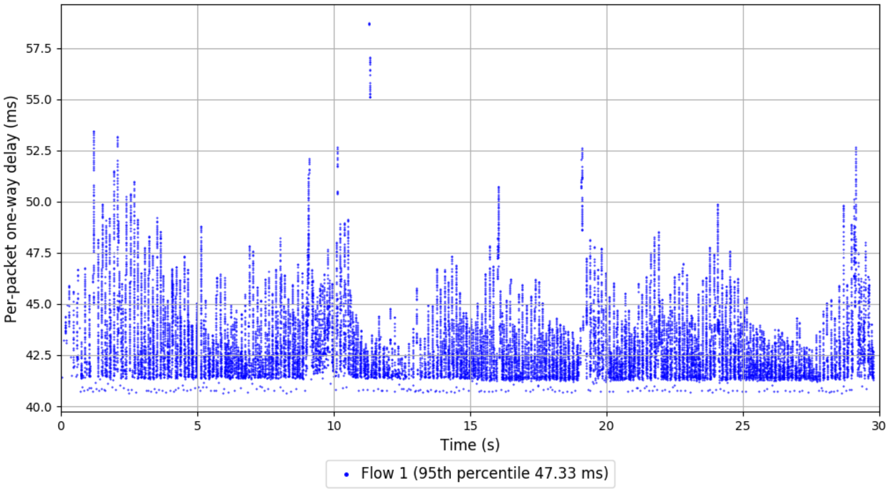




```
Run 6: Statistics of Sprout

Start at: 2018-05-25 03:07:45
End at: 2018-05-25 03:08:15
Local clock offset: 4.221 ms
Remote clock offset: 6.241 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 47.326 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 6.05 Mbit/s
95th percentile per-packet one-way delay: 47.326 ms
Loss rate: 0.38%
```

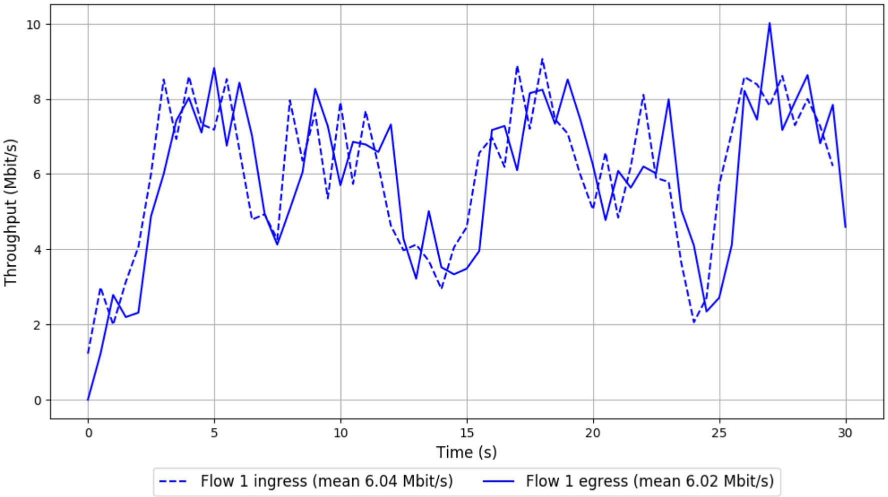
Run 6: Report of Sprout — Data Link

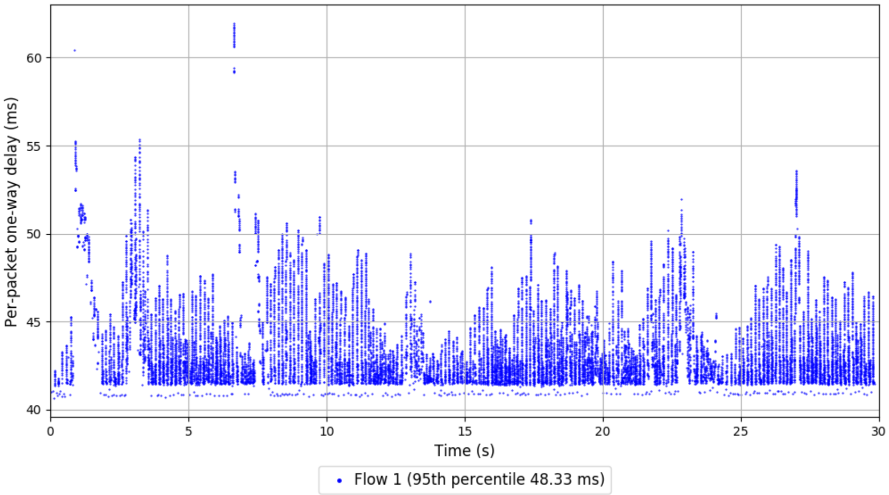




```
Run 7: Statistics of Sprout

Start at: 2018-05-25 03:29:11
End at: 2018-05-25 03:29:41
Local clock offset: 4.116 ms
Remote clock offset: 7.587 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.02 Mbit/s
95th percentile per-packet one-way delay: 48.329 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 6.02 Mbit/s
95th percentile per-packet one-way delay: 48.329 ms
Loss rate: 0.64%
```

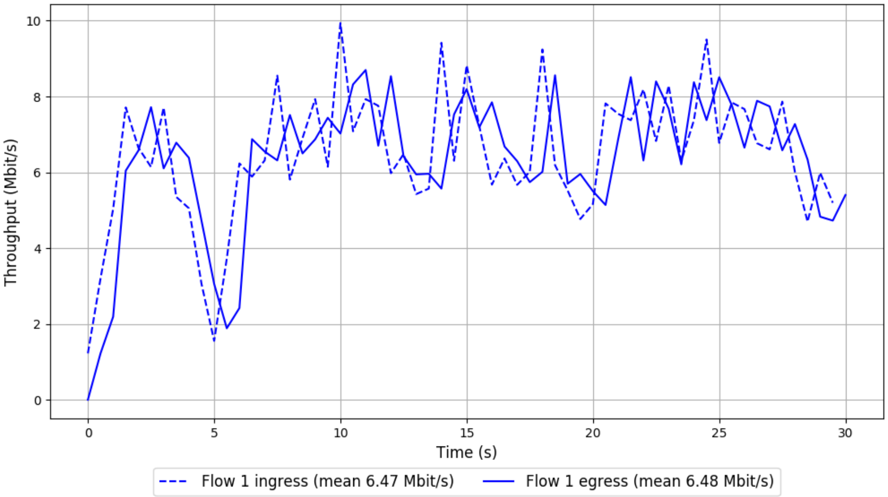
Run 7: Report of Sprout — Data Link

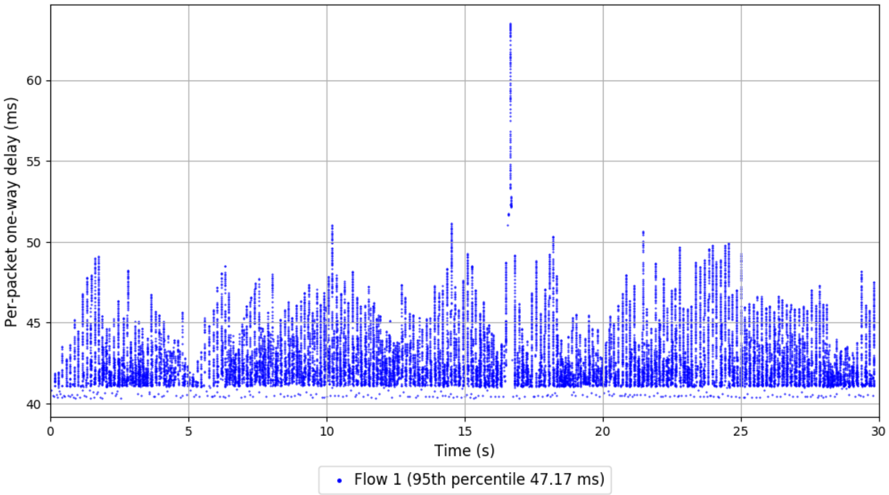




```
Run 8: Statistics of Sprout

Start at: 2018-05-25 03:50:04
End at: 2018-05-25 03:50:34
Local clock offset: 2.22 ms
Remote clock offset: 9.295 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.48 Mbit/s
95th percentile per-packet one-way delay: 47.168 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 6.48 Mbit/s
95th percentile per-packet one-way delay: 47.168 ms
Loss rate: 0.31%
```

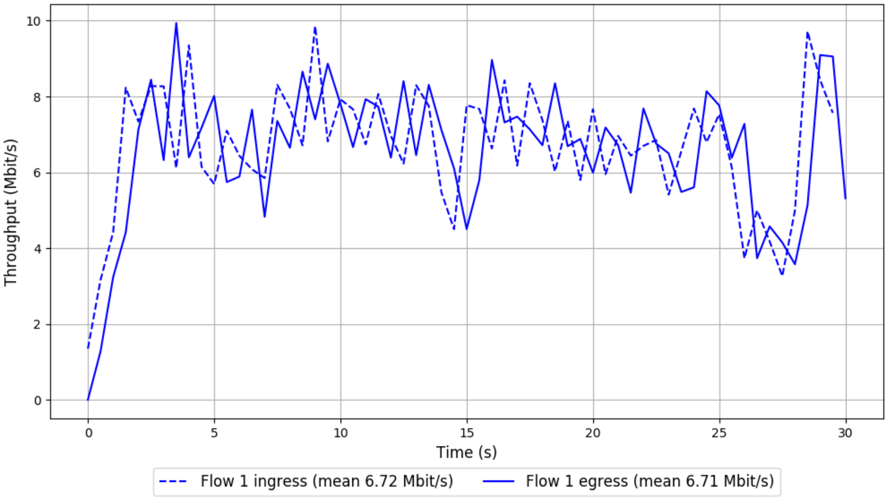
Run 8: Report of Sprout — Data Link

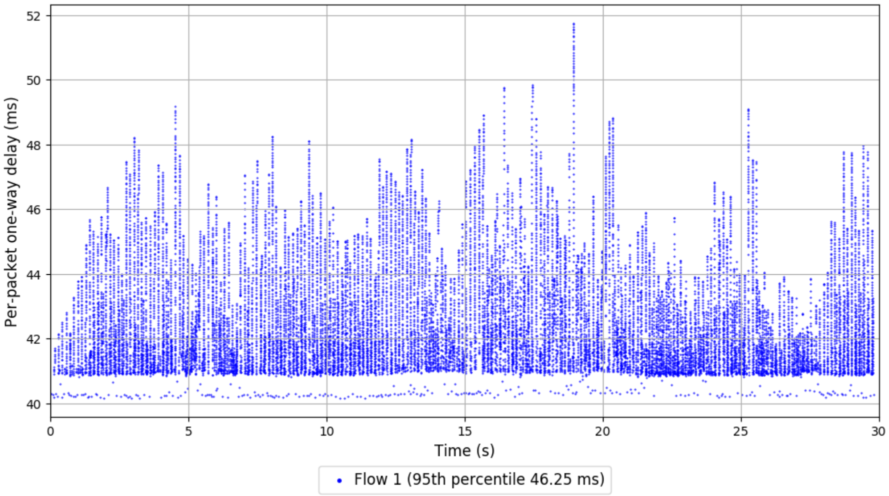




```
Run 9: Statistics of Sprout

Start at: 2018-05-25 04:11:43
End at: 2018-05-25 04:12:13
Local clock offset: 2.123 ms
Remote clock offset: 10.909 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 46.254 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 6.71 Mbit/s
95th percentile per-packet one-way delay: 46.254 ms
Loss rate: 0.56%
```

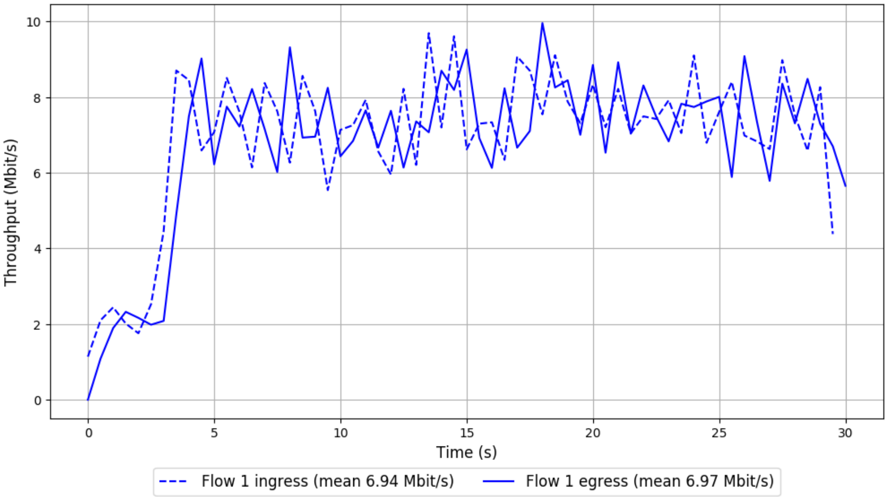
Run 9: Report of Sprout — Data Link

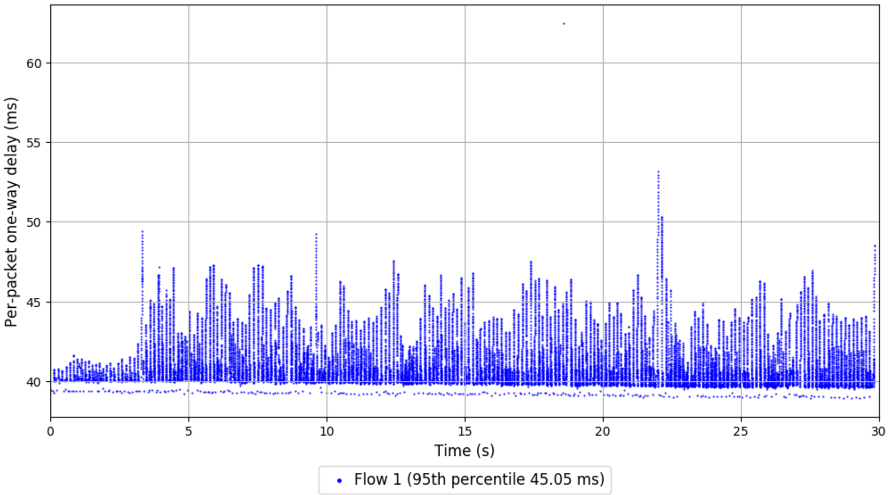




```
Run 10: Statistics of Sprout

Start at: 2018-05-25 04:32:23
End at: 2018-05-25 04:32:53
Local clock offset: 2.416 ms
Remote clock offset: 3.013 ms

# Below is generated by plot.py at 2018-05-25 05:04:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 45.052 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 6.97 Mbit/s
95th percentile per-packet one-way delay: 45.052 ms
Loss rate: 0.07%
```

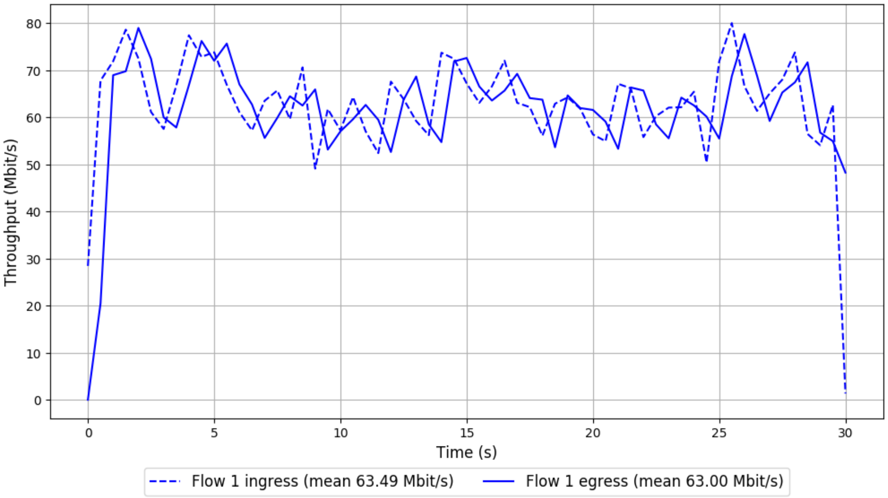
Run 10: Report of Sprout — Data Link

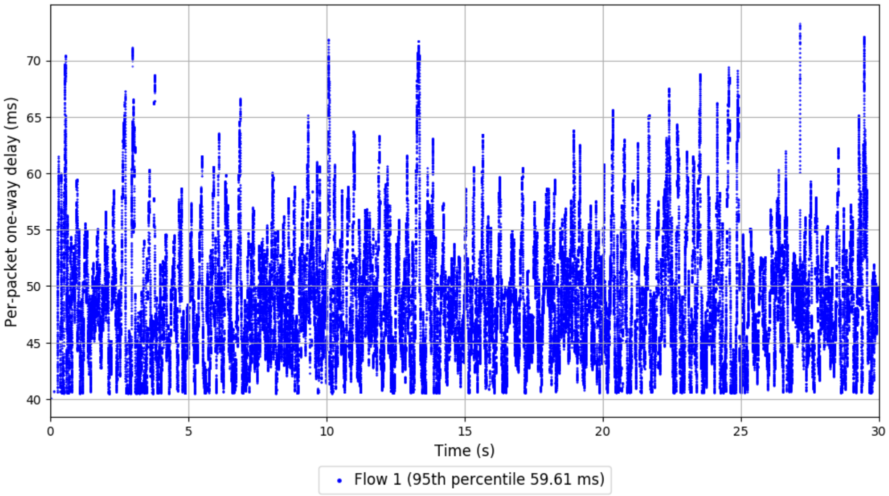




```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 01:34:40
End at: 2018-05-25 01:35:10
Local clock offset: 0.884 ms
Remote clock offset: 1.121 ms

# Below is generated by plot.py at 2018-05-25 05:06:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.00 Mbit/s
95th percentile per-packet one-way delay: 59.606 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 63.00 Mbit/s
95th percentile per-packet one-way delay: 59.606 ms
Loss rate: 1.13%
```

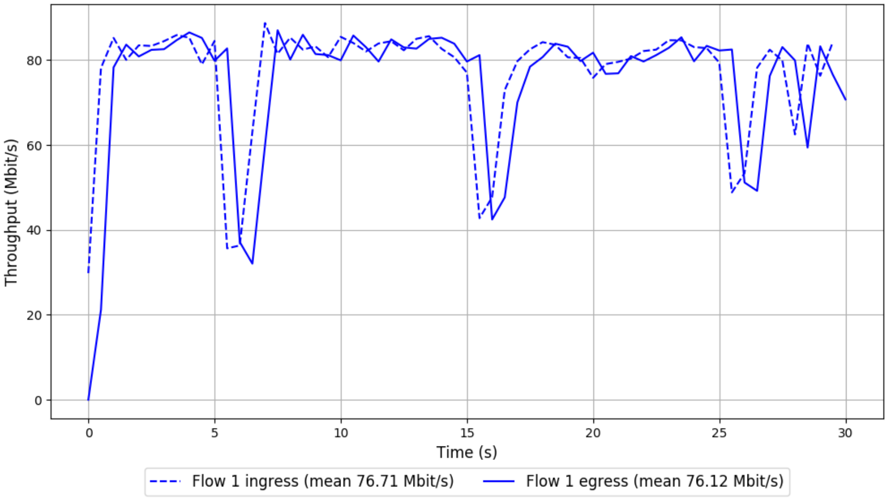
Run 1: Report of TaoVA-100x — Data Link

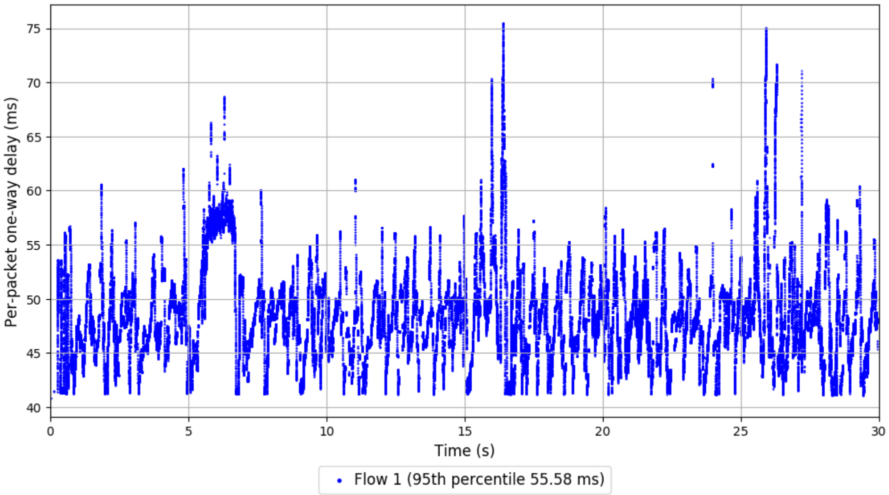




```
Run 2: Statistics of TaoVA-100x

Start at: 2018-05-25 01:55:19
End at: 2018-05-25 01:55:49
Local clock offset: -1.652 ms
Remote clock offset: 0.922 ms

# Below is generated by plot.py at 2018-05-25 05:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.12 Mbit/s
95th percentile per-packet one-way delay: 55.581 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 76.12 Mbit/s
95th percentile per-packet one-way delay: 55.581 ms
Loss rate: 1.13%
```

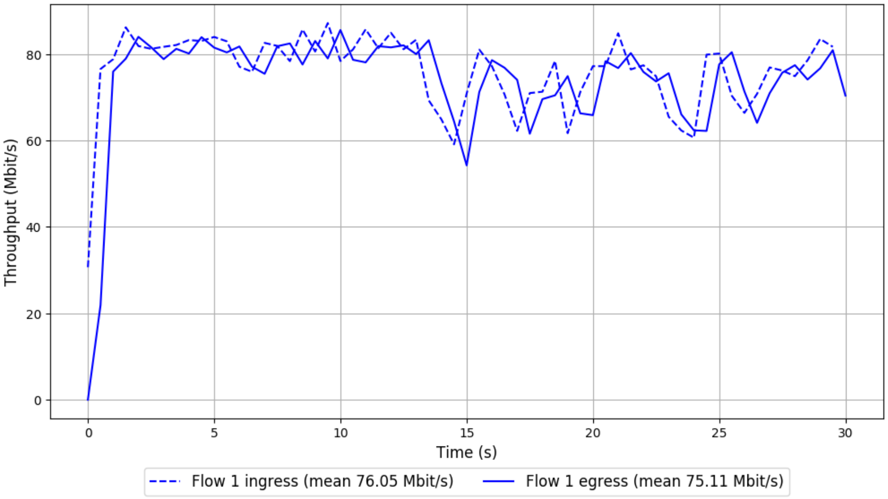
Run 2: Report of TaoVA-100x — Data Link

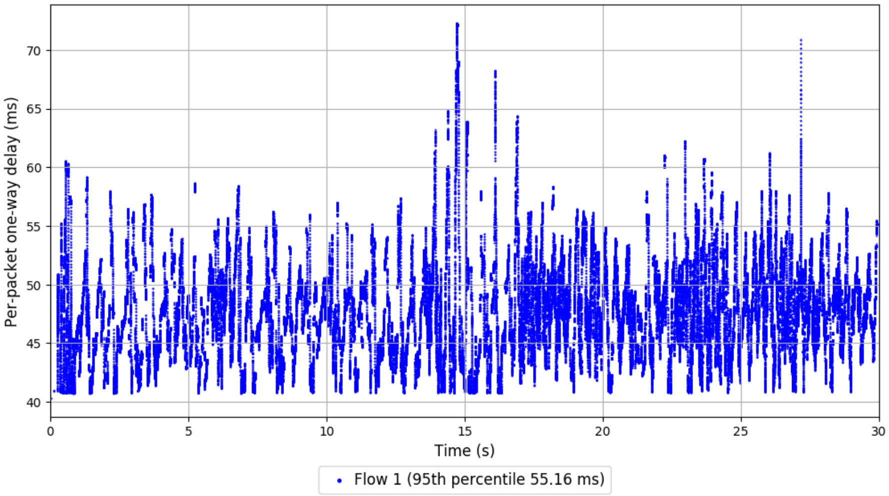




```
Run 3: Statistics of TaoVA-100x

Start at: 2018-05-25 02:16:01
End at: 2018-05-25 02:16:31
Local clock offset: 0.746 ms
Remote clock offset: 2.53 ms

# Below is generated by plot.py at 2018-05-25 05:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.11 Mbit/s
95th percentile per-packet one-way delay: 55.156 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 75.11 Mbit/s
95th percentile per-packet one-way delay: 55.156 ms
Loss rate: 1.59%
```

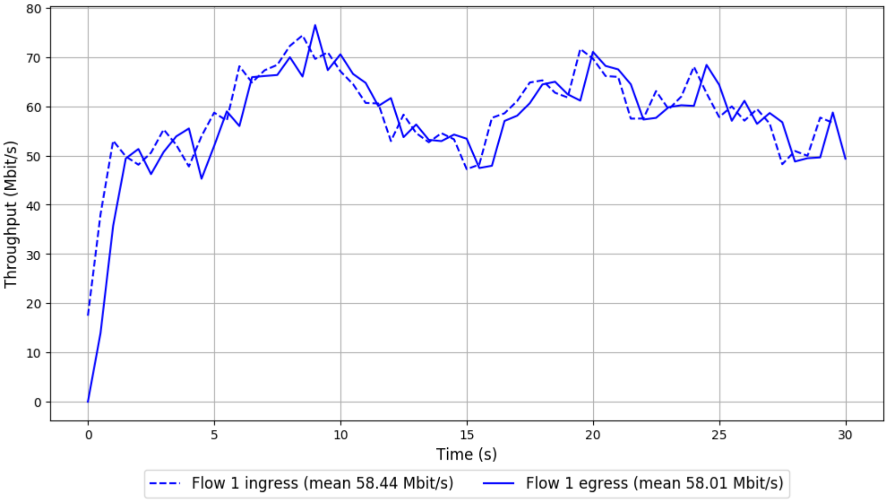
Run 3: Report of TaoVA-100x — Data Link

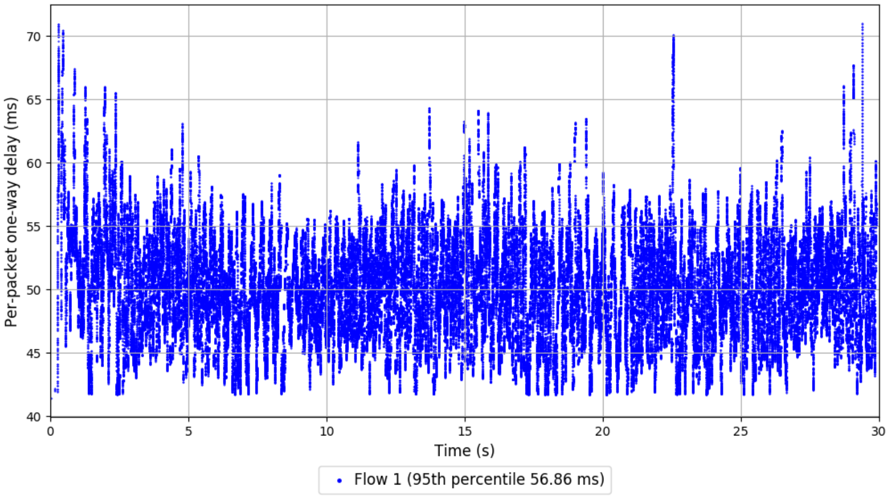




```
Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 02:36:36
End at: 2018-05-25 02:37:06
Local clock offset: 2.399 ms
Remote clock offset: 3.846 ms

# Below is generated by plot.py at 2018-05-25 05:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 56.864 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 58.01 Mbit/s
95th percentile per-packet one-way delay: 56.864 ms
Loss rate: 1.10%
```

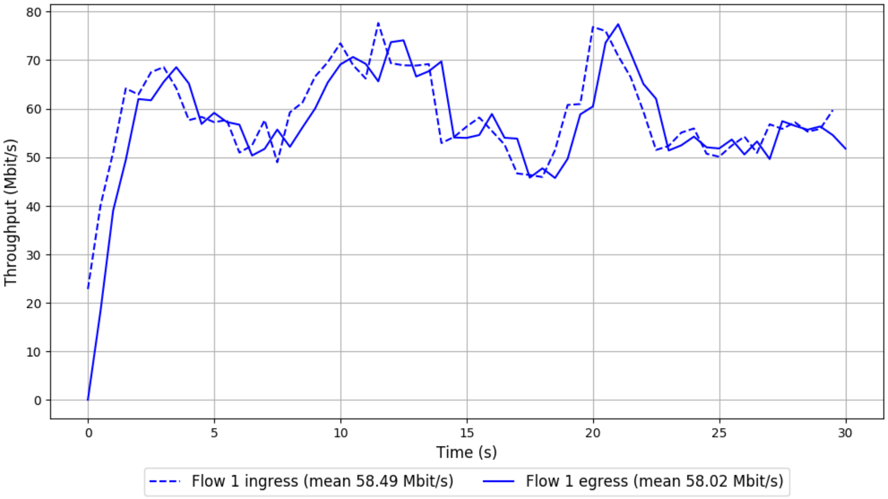
Run 4: Report of TaoVA-100x — Data Link

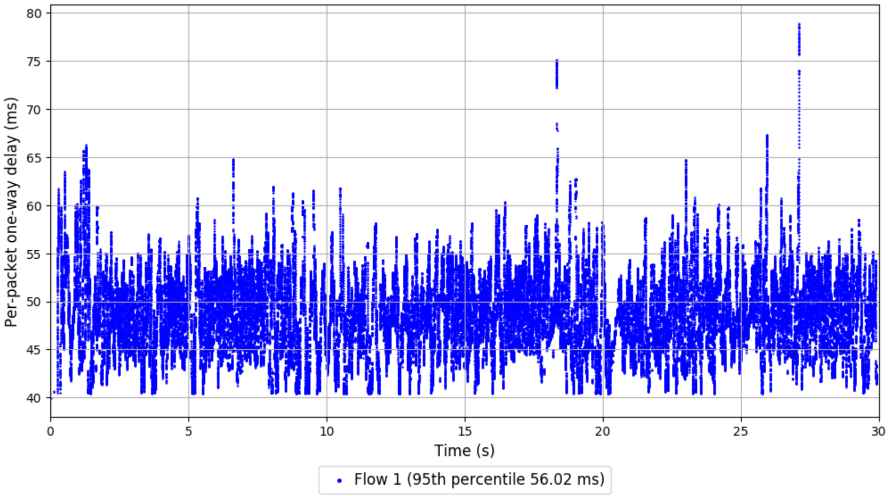




```
Run 5: Statistics of TaoVA-100x

Start at: 2018-05-25 02:57:20
End at: 2018-05-25 02:57:50
Local clock offset: 3.373 ms
Remote clock offset: 5.523 ms

# Below is generated by plot.py at 2018-05-25 05:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.02 Mbit/s
95th percentile per-packet one-way delay: 56.022 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 58.02 Mbit/s
95th percentile per-packet one-way delay: 56.022 ms
Loss rate: 1.16%
```

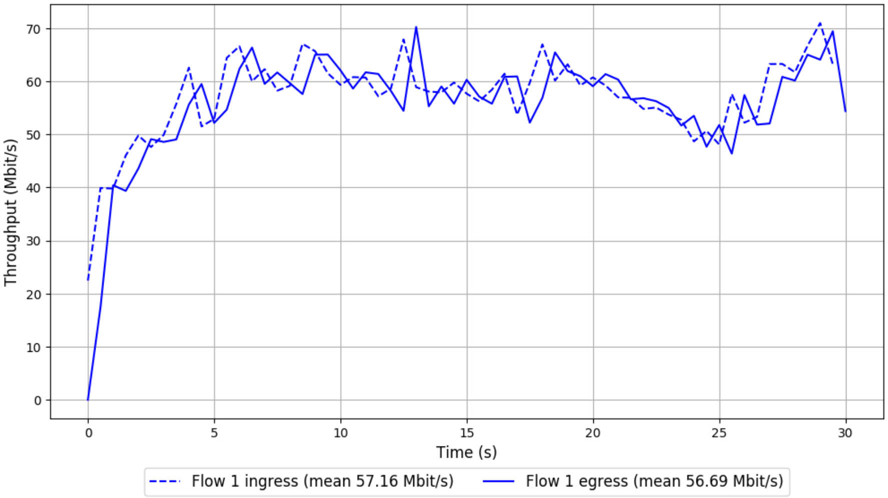
Run 5: Report of TaoVA-100x — Data Link

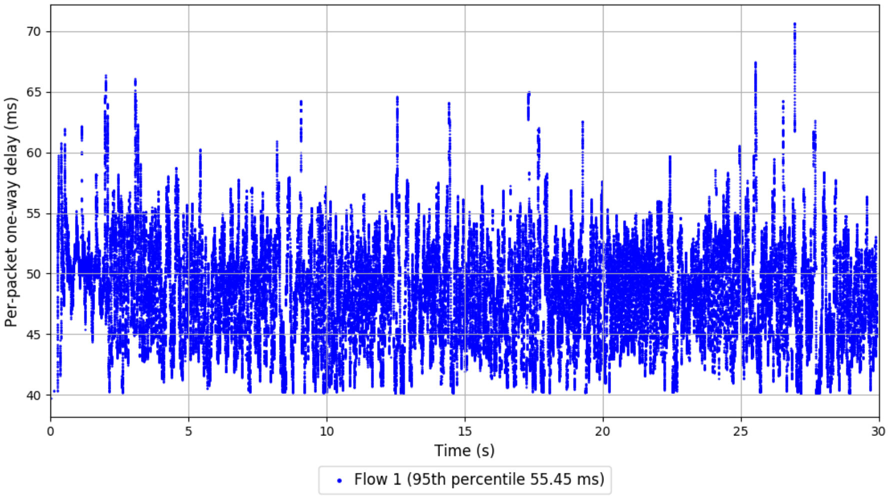




```
Run 6: Statistics of TaoVA-100x

Start at: 2018-05-25 03:18:01
End at: 2018-05-25 03:18:31
Local clock offset: 4.708 ms
Remote clock offset: 6.999 ms

# Below is generated by plot.py at 2018-05-25 05:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.69 Mbit/s
95th percentile per-packet one-way delay: 55.447 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 56.69 Mbit/s
95th percentile per-packet one-way delay: 55.447 ms
Loss rate: 1.21%
```

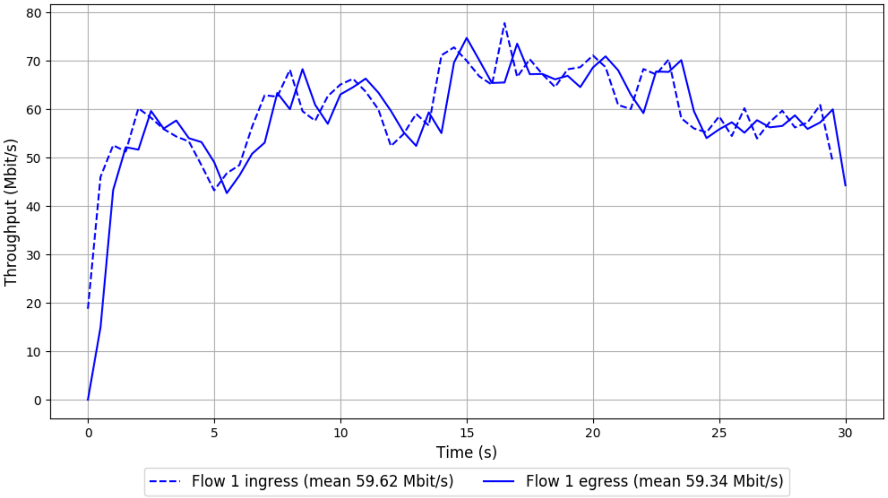
Run 6: Report of TaoVA-100x — Data Link

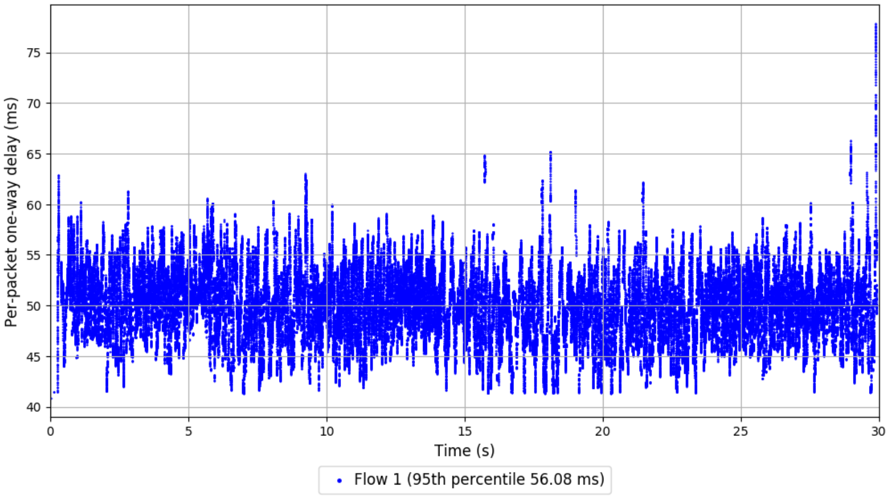




```
Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 03:39:29
End at: 2018-05-25 03:39:59
Local clock offset: 2.575 ms
Remote clock offset: 8.287 ms

# Below is generated by plot.py at 2018-05-25 05:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.34 Mbit/s
95th percentile per-packet one-way delay: 56.075 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 59.34 Mbit/s
95th percentile per-packet one-way delay: 56.075 ms
Loss rate: 0.83%
```

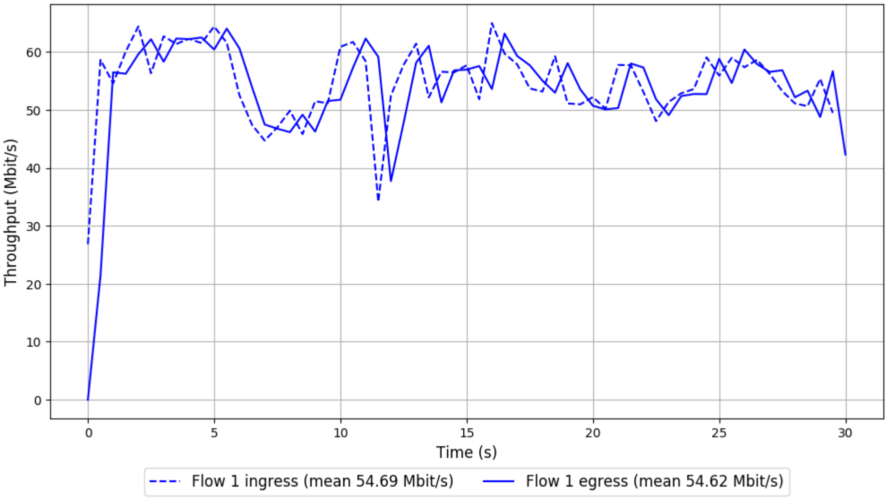
Run 7: Report of TaoVA-100x — Data Link

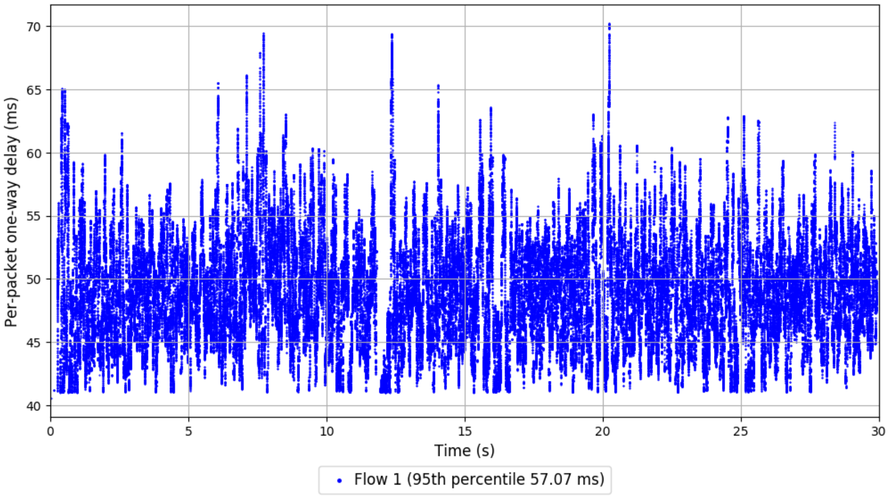




```
Run 8: Statistics of TaoVA-100x

Start at: 2018-05-25 04:00:21
End at: 2018-05-25 04:00:51
Local clock offset: 2.21 ms
Remote clock offset: 9.914 ms

# Below is generated by plot.py at 2018-05-25 05:06:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.62 Mbit/s
95th percentile per-packet one-way delay: 57.068 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 54.62 Mbit/s
95th percentile per-packet one-way delay: 57.068 ms
Loss rate: 0.53%
```

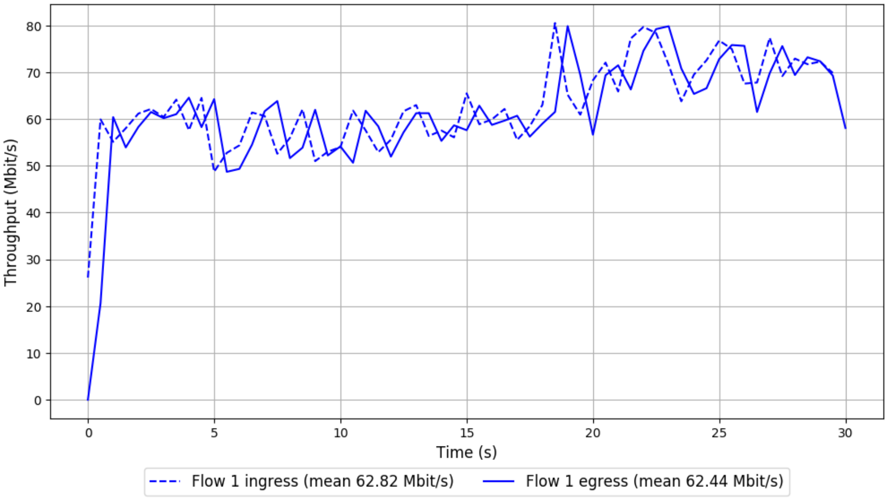
Run 8: Report of TaoVA-100x — Data Link

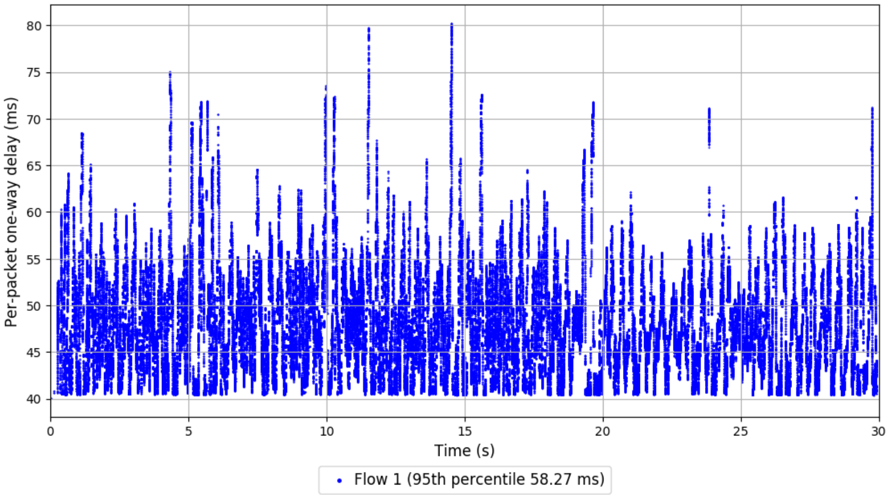




```
Run 9: Statistics of TaoVA-100x

Start at: 2018-05-25 04:21:57
End at: 2018-05-25 04:22:27
Local clock offset: 2.278 ms
Remote clock offset: 11.367 ms

# Below is generated by plot.py at 2018-05-25 05:07:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.44 Mbit/s
95th percentile per-packet one-way delay: 58.268 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 62.44 Mbit/s
95th percentile per-packet one-way delay: 58.268 ms
Loss rate: 0.98%
```

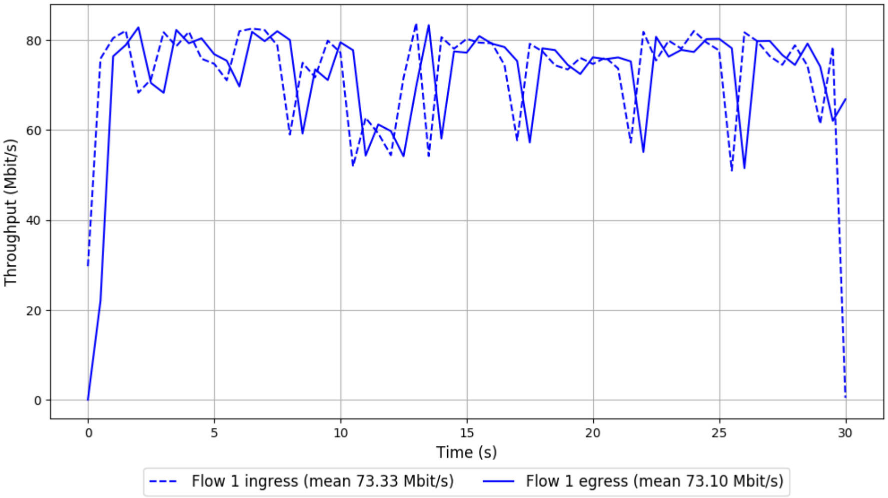
Run 9: Report of TaoVA-100x — Data Link

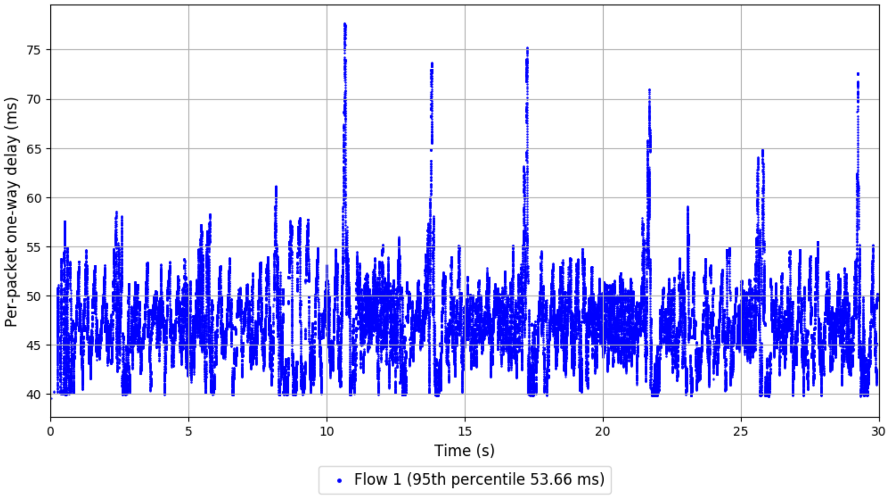




```
Run 10: Statistics of TaoVA-100x

Start at: 2018-05-25 04:43:11
End at: 2018-05-25 04:43:41
Local clock offset: 2.516 ms
Remote clock offset: -2.526 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.10 Mbit/s
95th percentile per-packet one-way delay: 53.657 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 73.10 Mbit/s
95th percentile per-packet one-way delay: 53.657 ms
Loss rate: 0.69%
```

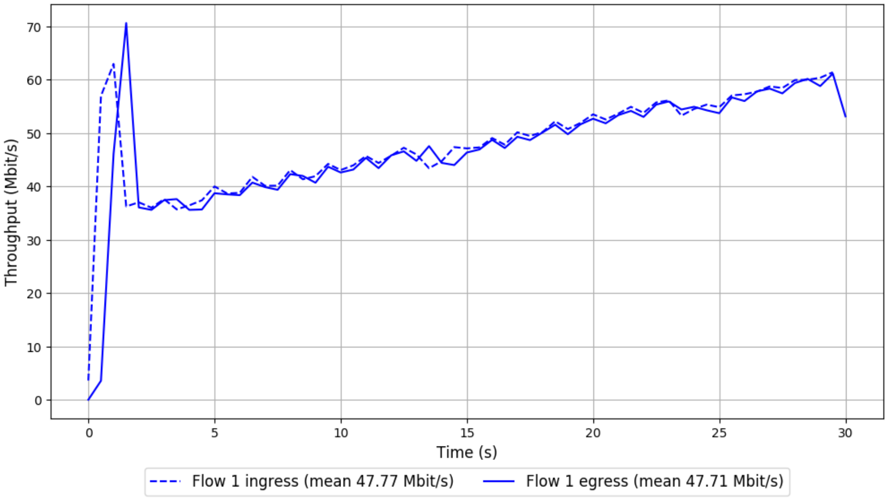
Run 10: Report of TaoVA-100x — Data Link

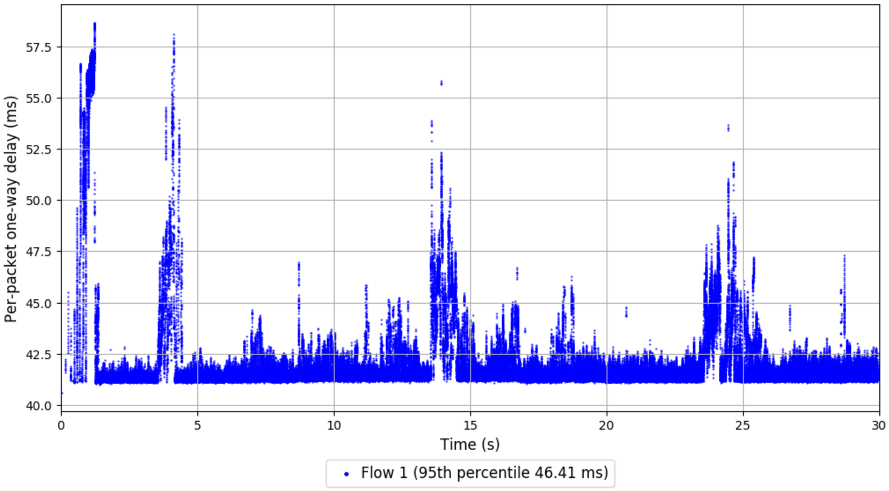




```
Run 1: Statistics of TCP Vegas

Start at: 2018-05-25 01:41:12
End at: 2018-05-25 01:41:43
Local clock offset: -0.235 ms
Remote clock offset: 0.99 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.71 Mbit/s
95th percentile per-packet one-way delay: 46.411 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 47.71 Mbit/s
95th percentile per-packet one-way delay: 46.411 ms
Loss rate: 0.48%
```

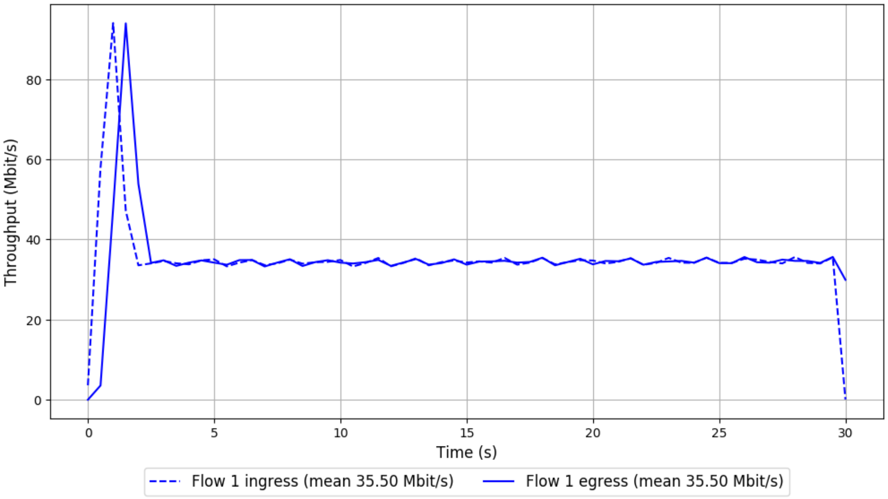
Run 1: Report of TCP Vegas — Data Link

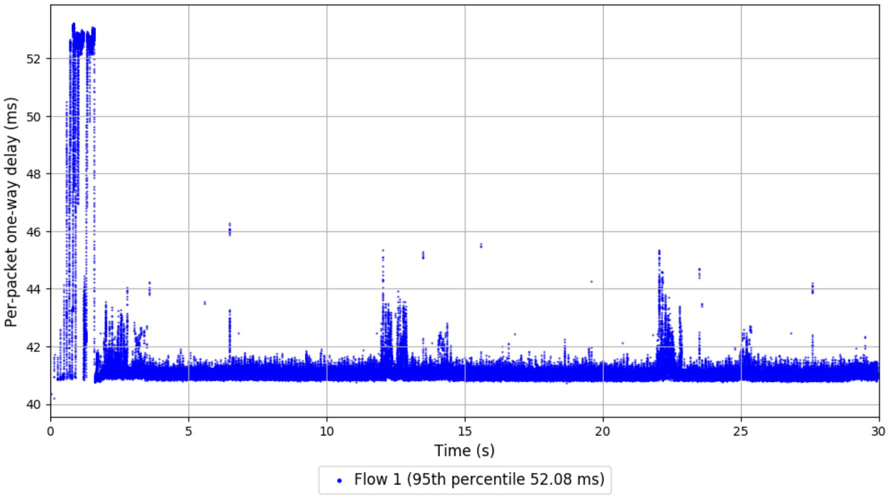




```
Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 02:01:54
End at: 2018-05-25 02:02:24
Local clock offset: -0.216 ms
Remote clock offset: 1.229 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.50 Mbit/s
95th percentile per-packet one-way delay: 52.084 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 35.50 Mbit/s
95th percentile per-packet one-way delay: 52.084 ms
Loss rate: 0.35%
```

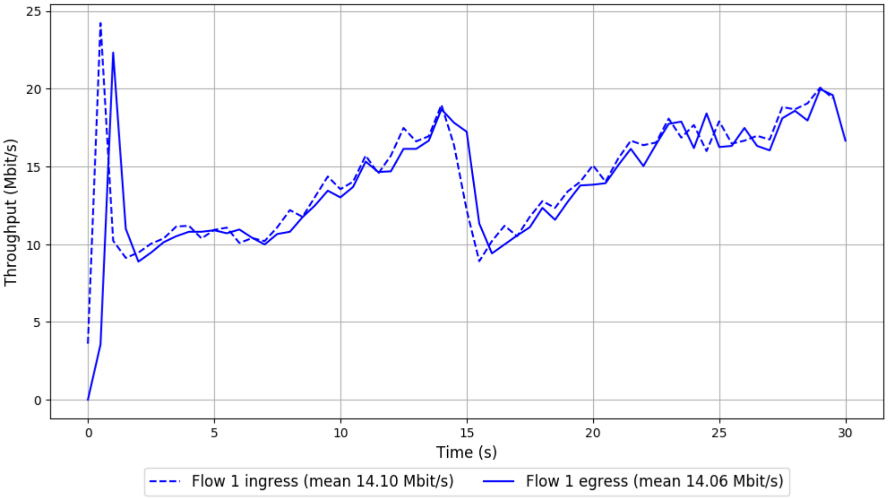
Run 2: Report of TCP Vegas — Data Link

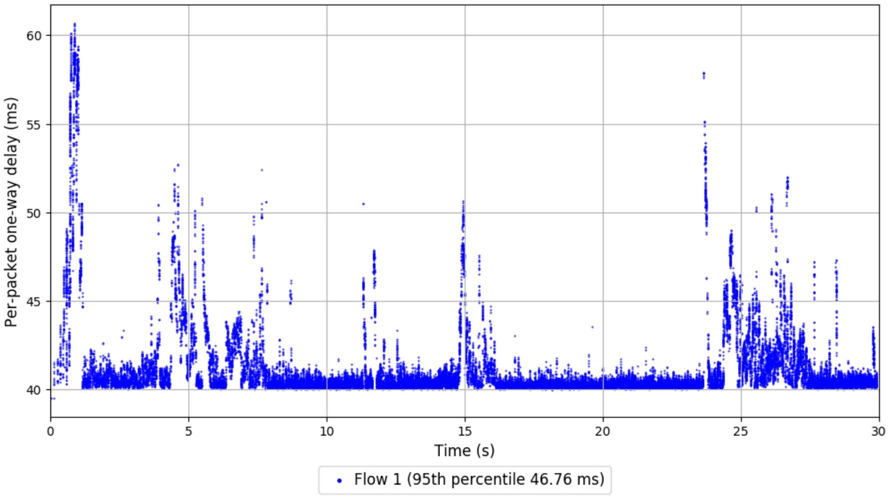




```
Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 02:22:34
End at: 2018-05-25 02:23:04
Local clock offset: 0.986 ms
Remote clock offset: 3.22 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.06 Mbit/s
95th percentile per-packet one-way delay: 46.758 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 14.06 Mbit/s
95th percentile per-packet one-way delay: 46.758 ms
Loss rate: 0.63%
```

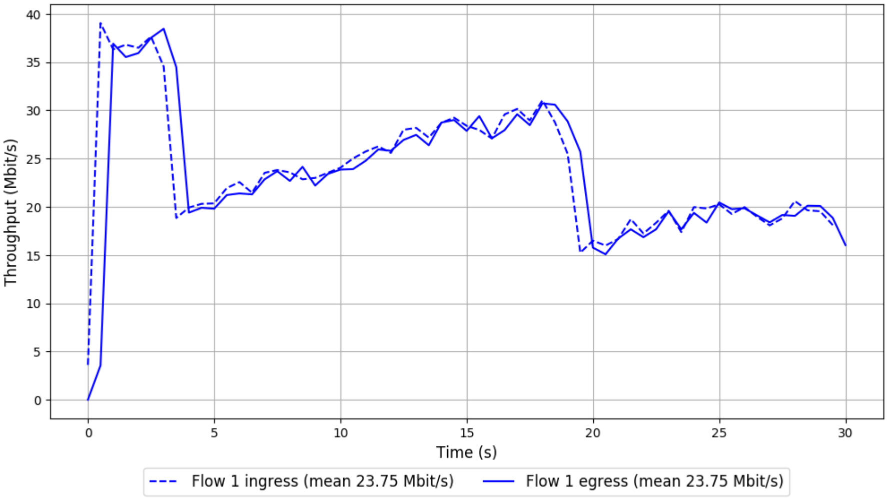
Run 3: Report of TCP Vegas — Data Link

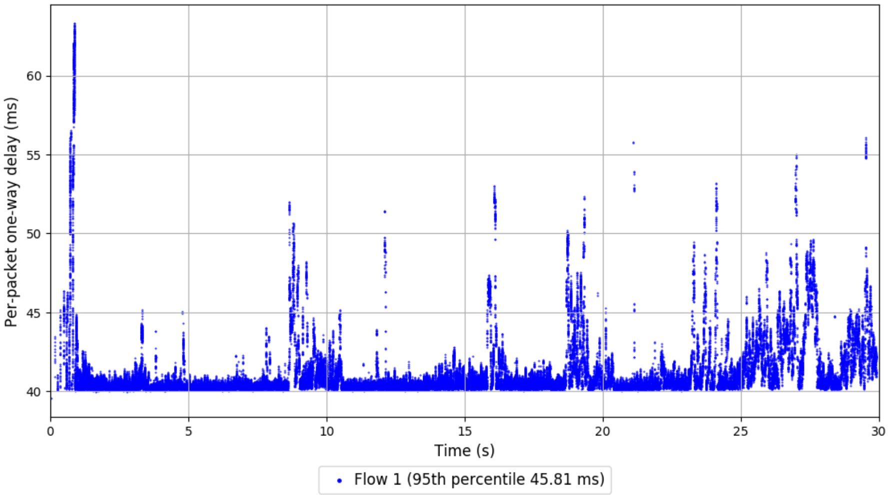




```
Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 02:43:09
End at: 2018-05-25 02:43:39
Local clock offset: 2.488 ms
Remote clock offset: 4.59 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 45.807 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 45.807 ms
Loss rate: 0.36%
```

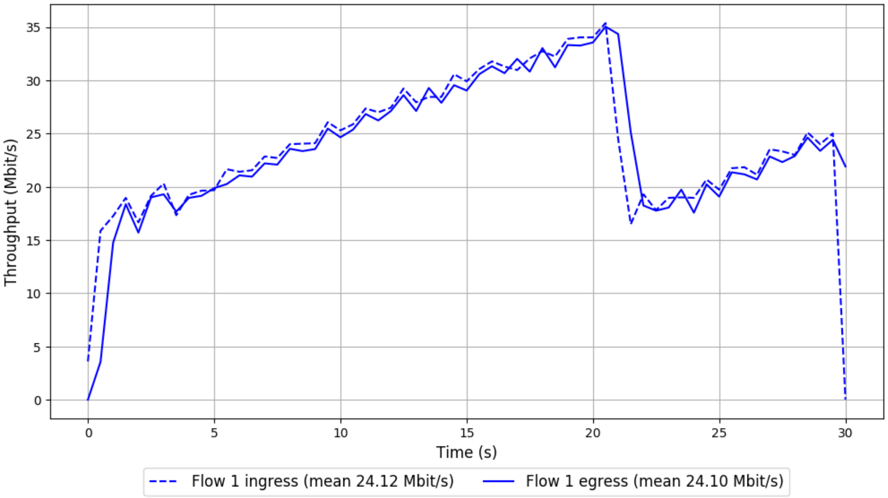
Run 4: Report of TCP Vegas — Data Link

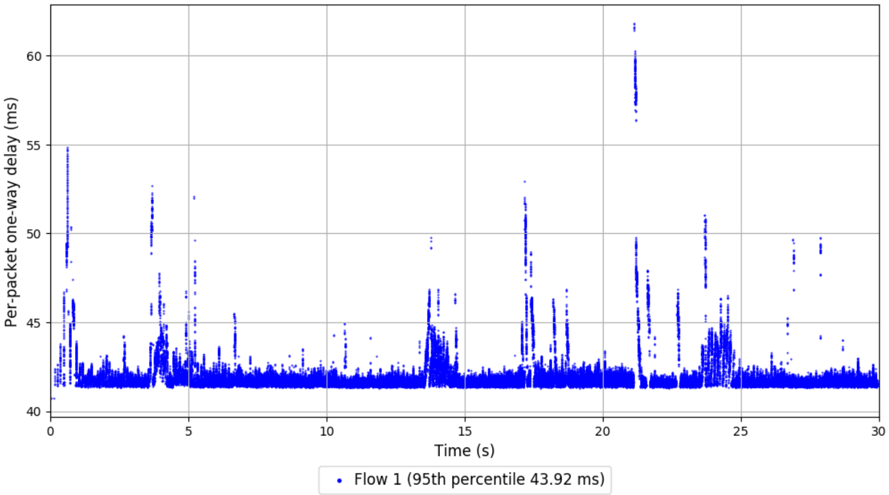




```
Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 03:03:51
End at: 2018-05-25 03:04:21
Local clock offset: 3.809 ms
Remote clock offset: 5.808 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 24.10 Mbit/s
95th percentile per-packet one-way delay: 43.925 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 24.10 Mbit/s
95th percentile per-packet one-way delay: 43.925 ms
Loss rate: 0.42%
```

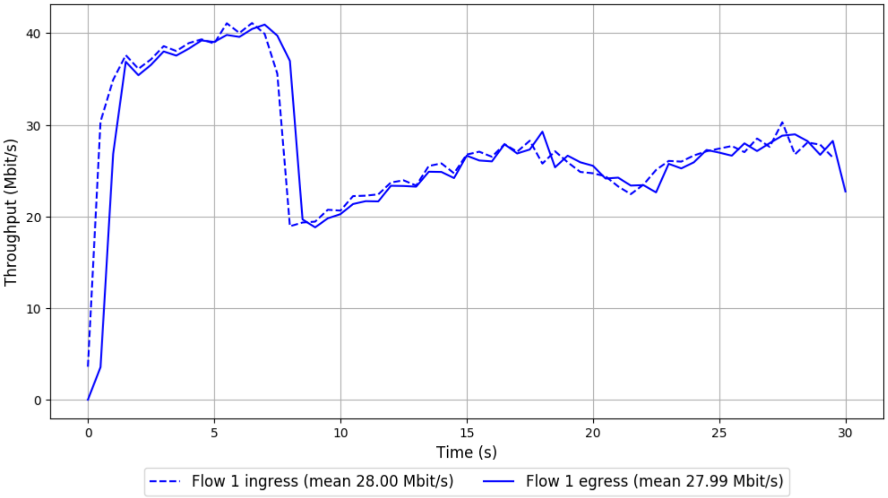
Run 5: Report of TCP Vegas — Data Link

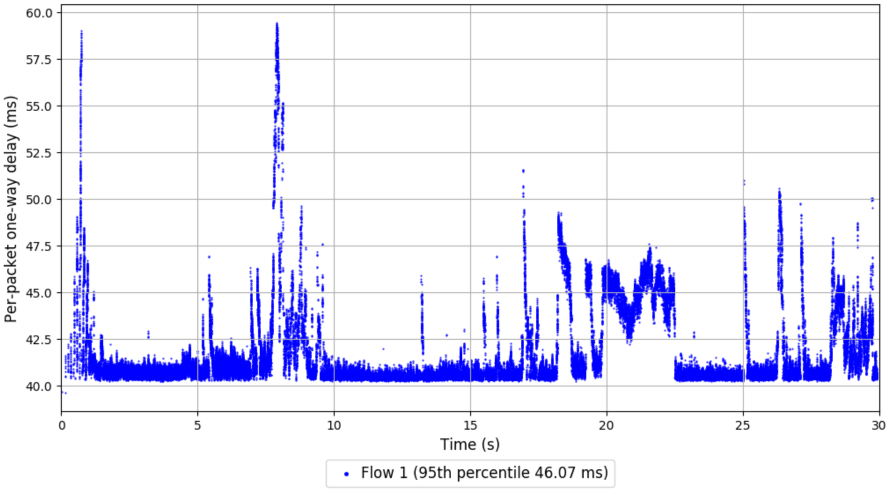




```
Run 6: Statistics of TCP Vegas

Start at: 2018-05-25 03:24:36
End at: 2018-05-25 03:25:06
Local clock offset: 4.915 ms
Remote clock offset: 7.398 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.99 Mbit/s
95th percentile per-packet one-way delay: 46.073 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 27.99 Mbit/s
95th percentile per-packet one-way delay: 46.073 ms
Loss rate: 0.38%
```

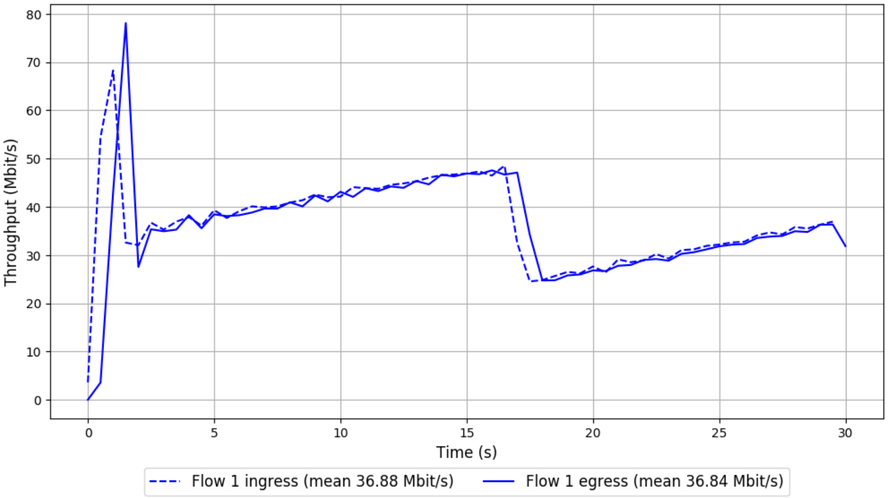
Run 6: Report of TCP Vegas — Data Link

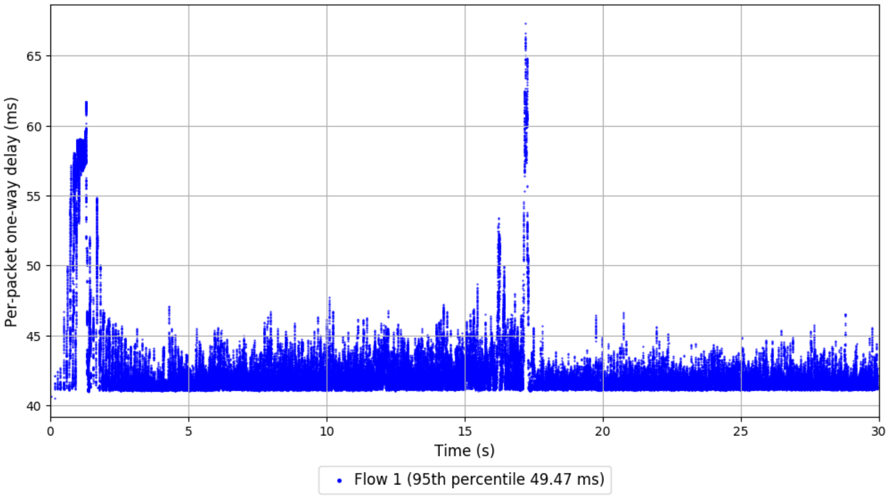




```
Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 03:46:10
End at: 2018-05-25 03:46:40
Local clock offset: 2.324 ms
Remote clock offset: 8.981 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 36.84 Mbit/s
95th percentile per-packet one-way delay: 49.473 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 36.84 Mbit/s
95th percentile per-packet one-way delay: 49.473 ms
Loss rate: 0.47%
```

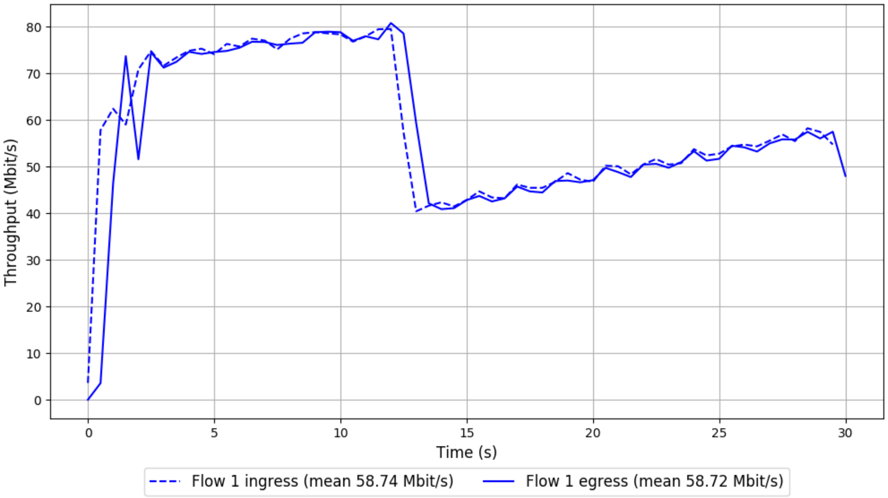
Run 7: Report of TCP Vegas — Data Link

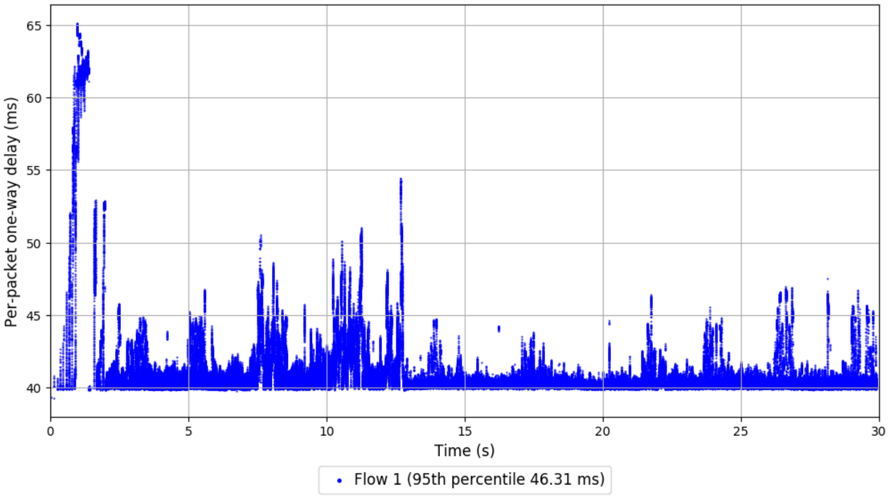




```
Run 8: Statistics of TCP Vegas

Start at: 2018-05-25 04:07:49
End at: 2018-05-25 04:08:19
Local clock offset: 2.118 ms
Remote clock offset: 10.635 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.72 Mbit/s
95th percentile per-packet one-way delay: 46.306 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 58.72 Mbit/s
95th percentile per-packet one-way delay: 46.306 ms
Loss rate: 0.38%
```

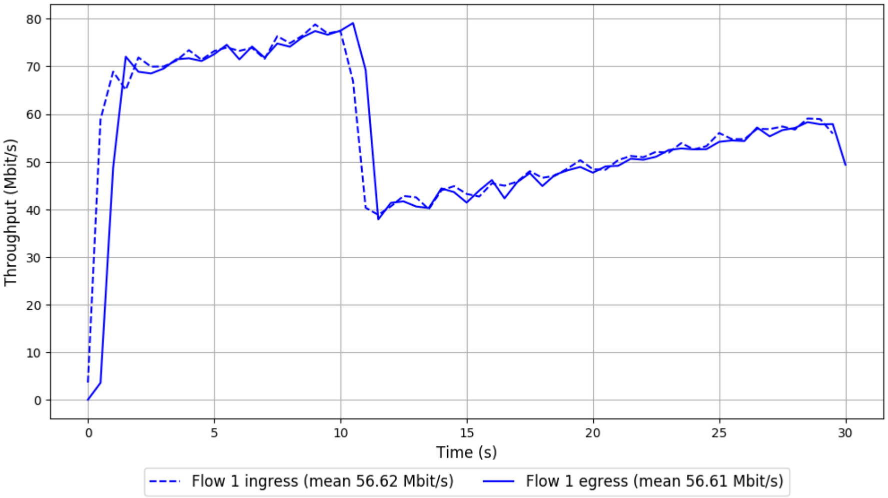
Run 8: Report of TCP Vegas — Data Link

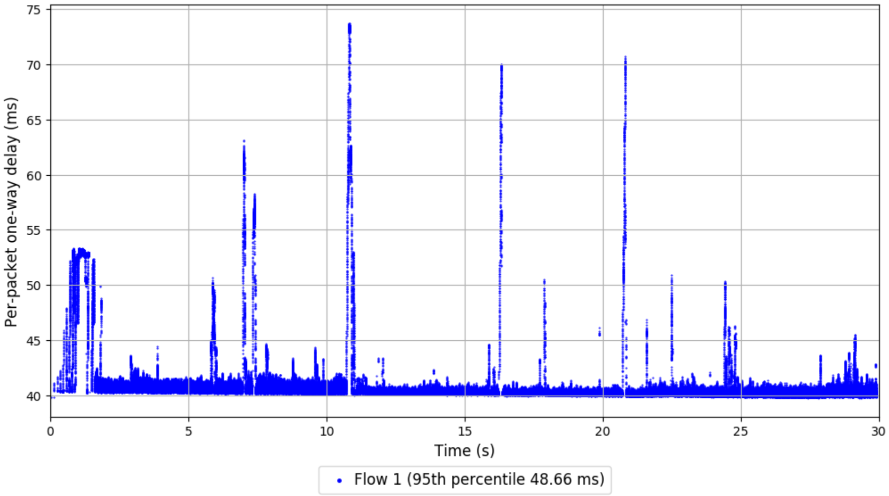




```
Run 9: Statistics of TCP Vegas

Start at: 2018-05-25 04:28:29
End at: 2018-05-25 04:28:59
Local clock offset: 2.471 ms
Remote clock offset: 6.626 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.61 Mbit/s
95th percentile per-packet one-way delay: 48.664 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 56.61 Mbit/s
95th percentile per-packet one-way delay: 48.664 ms
Loss rate: 0.37%
```

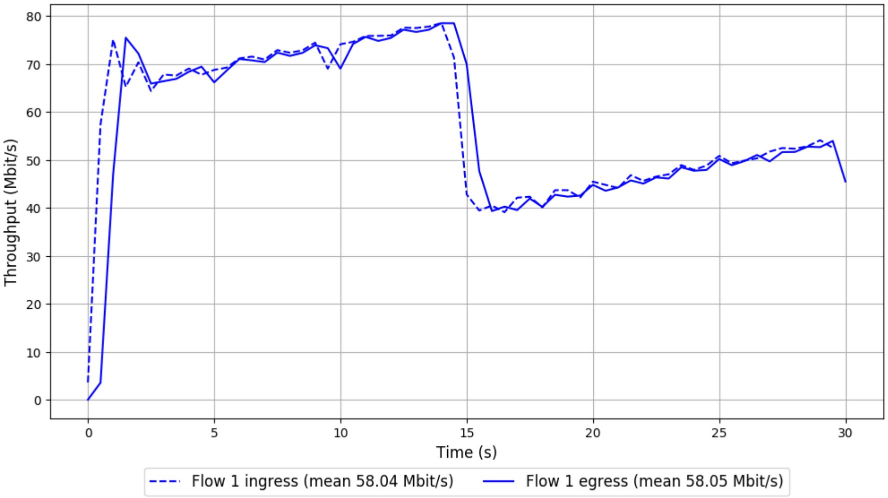
Run 9: Report of TCP Vegas — Data Link

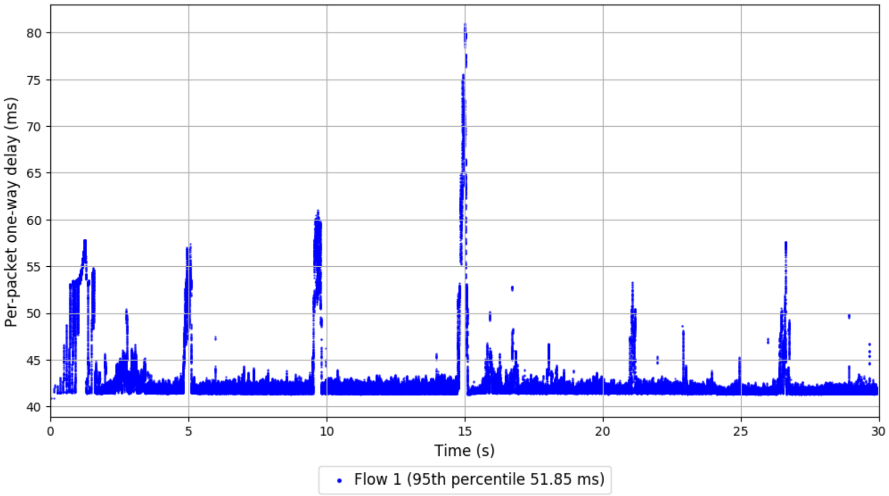




```
Run 10: Statistics of TCP Vegas

Start at: 2018-05-25 04:49:43
End at: 2018-05-25 04:50:13
Local clock offset: 2.55 ms
Remote clock offset: -4.859 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.05 Mbit/s
95th percentile per-packet one-way delay: 51.849 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 58.05 Mbit/s
95th percentile per-packet one-way delay: 51.849 ms
Loss rate: 0.34%
```

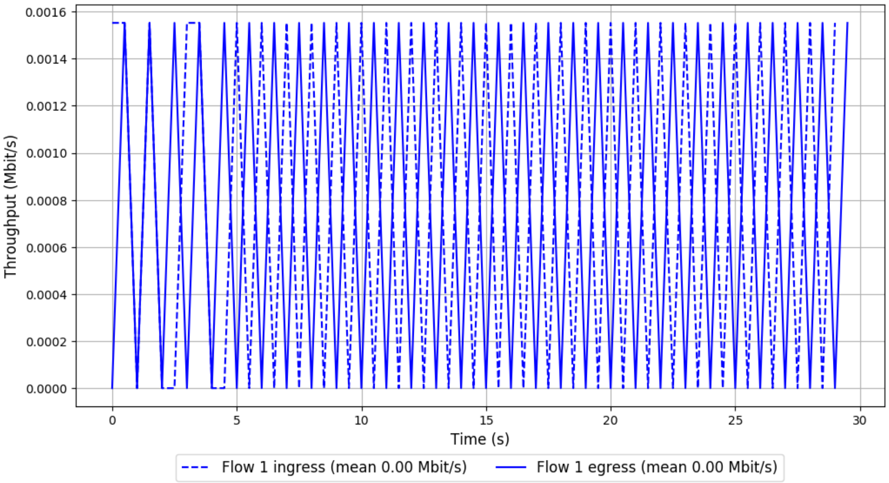
Run 10: Report of TCP Vegas — Data Link

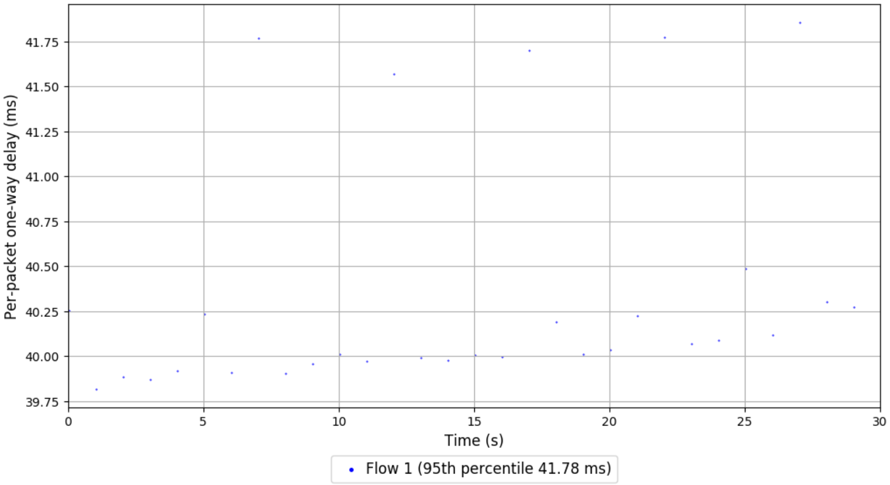




```
Run 1: Statistics of Verus

Start at: 2018-05-25 01:25:42
End at: 2018-05-25 01:26:12
Local clock offset: 4.663 ms
Remote clock offset: 0.899 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 41.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 41.776 ms
Loss rate: 0.00%
```

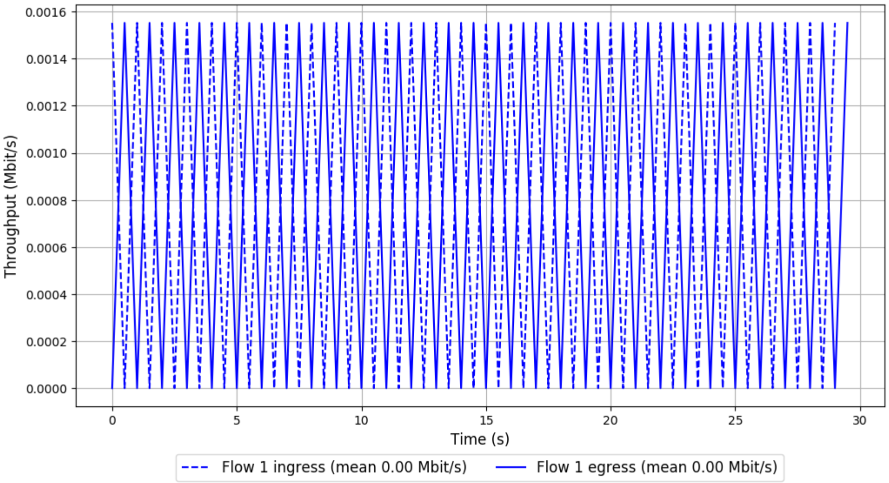
Run 1: Report of Verus — Data Link

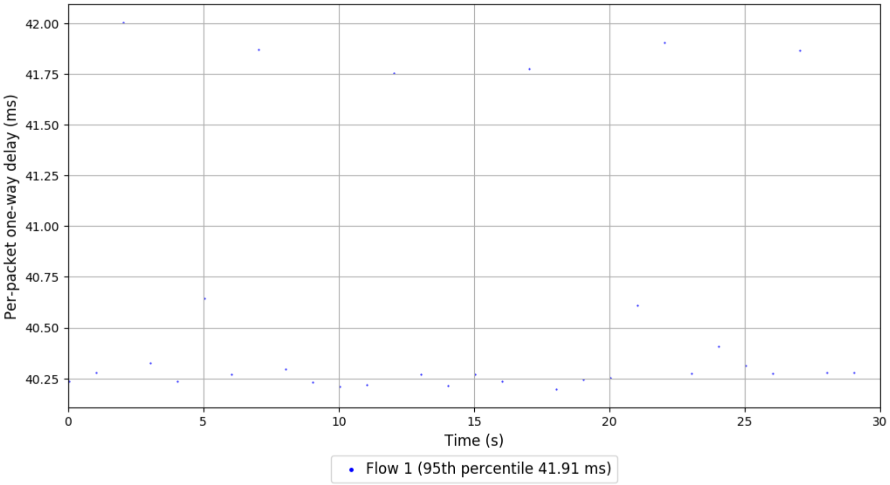




```
Run 2: Statistics of Verus

Start at: 2018-05-25 01:46:21
End at: 2018-05-25 01:46:51
Local clock offset: -1.099 ms
Remote clock offset: 0.903 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 41.906 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 41.906 ms
Loss rate: 0.00%
```

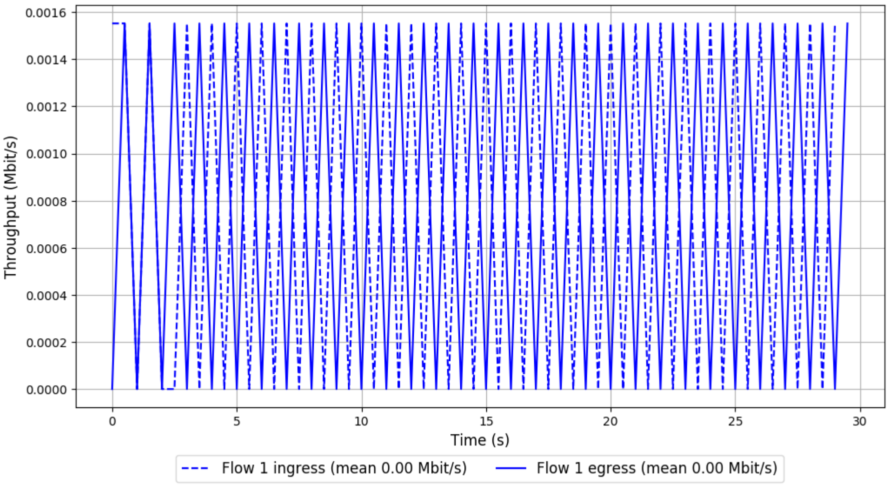
Run 2: Report of Verus — Data Link

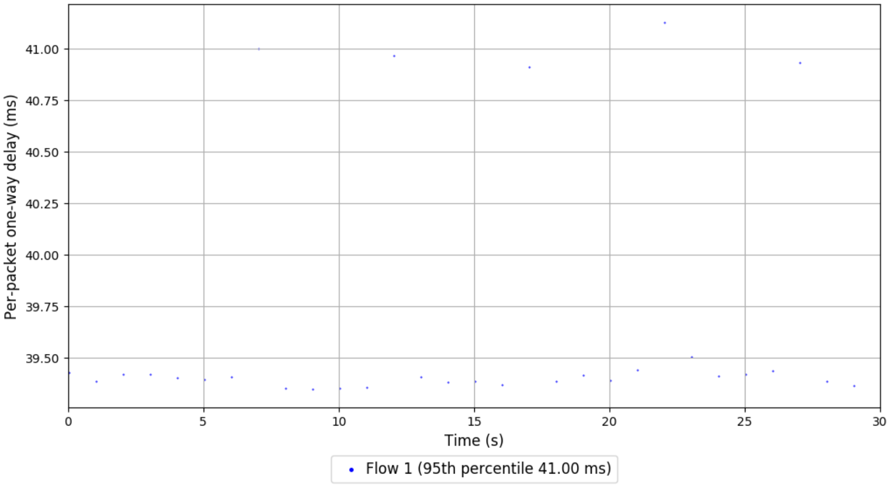




```
Run 3: Statistics of Verus

Start at: 2018-05-25 02:07:03
End at: 2018-05-25 02:07:33
Local clock offset: 0.243 ms
Remote clock offset: 1.41 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 41.001 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 41.001 ms
Loss rate: 0.00%
```

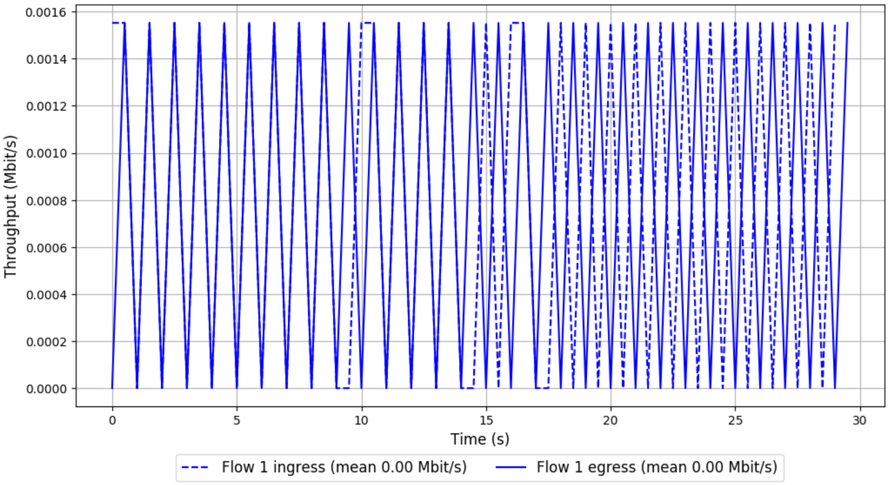
Run 3: Report of Verus — Data Link

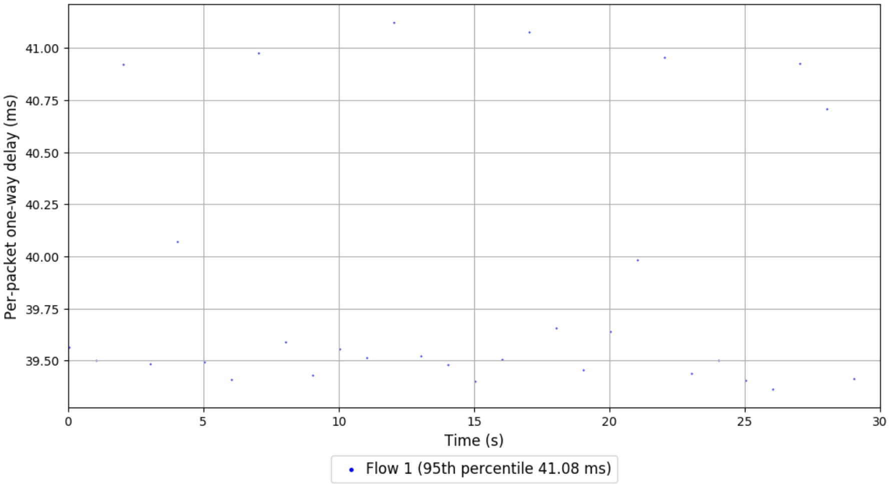




```
Run 4: Statistics of Verus

Start at: 2018-05-25 02:27:41
End at: 2018-05-25 02:28:11
Local clock offset: 1.414 ms
Remote clock offset: 3.601 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 41.079 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 41.079 ms
Loss rate: 0.00%
```

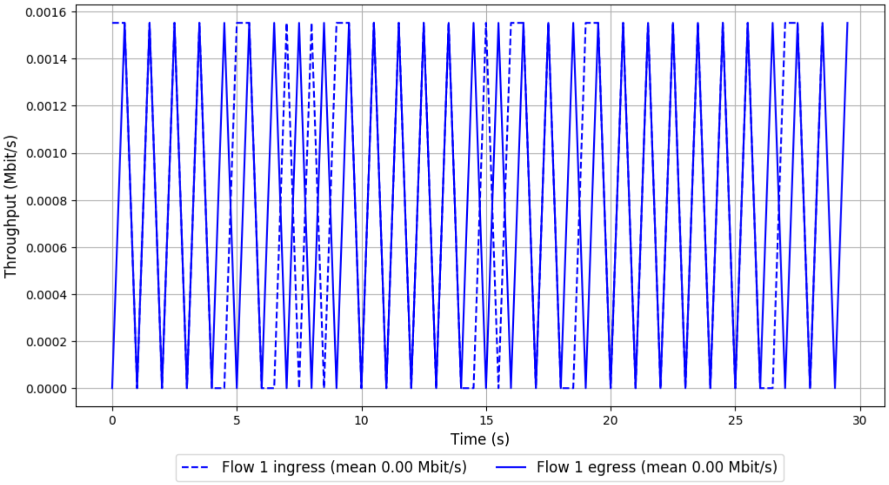
Run 4: Report of Verus — Data Link

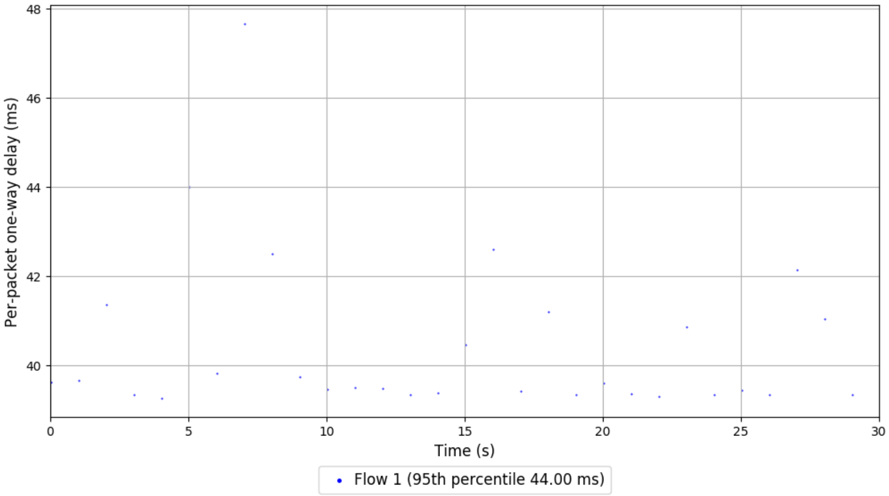




```
Run 5: Statistics of Verus

Start at: 2018-05-25 02:48:22
End at: 2018-05-25 02:48:52
Local clock offset: 2.675 ms
Remote clock offset: 5.037 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 43.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 43.998 ms
Loss rate: 0.00%
```

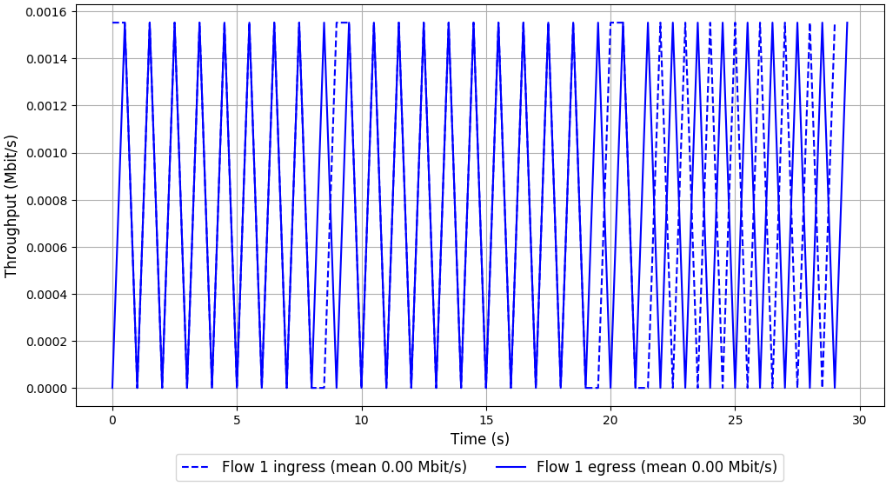
Run 5: Report of Verus — Data Link

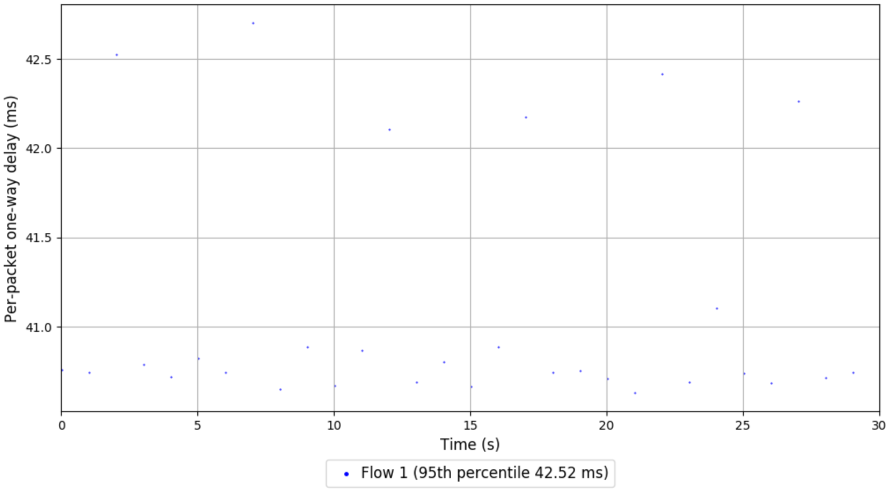




```
Run 6: Statistics of Verus

Start at: 2018-05-25 03:09:01
End at: 2018-05-25 03:09:31
Local clock offset: 4.328 ms
Remote clock offset: 6.348 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 42.524 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 42.524 ms
Loss rate: 0.00%
```

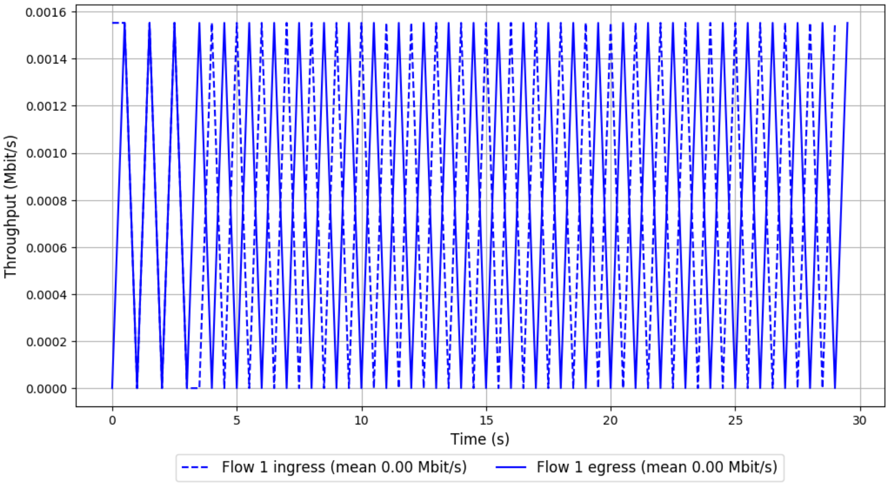
Run 6: Report of Verus — Data Link

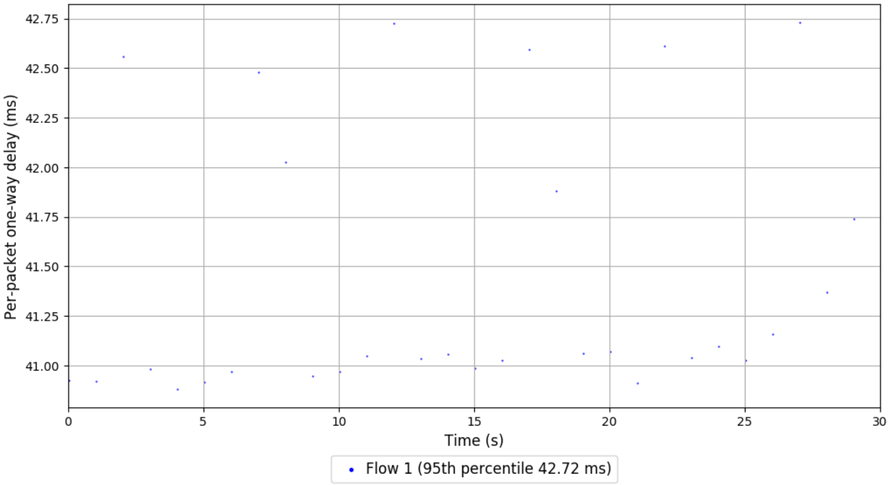




```
Run 7: Statistics of Verus

Start at: 2018-05-25 03:30:27
End at: 2018-05-25 03:30:57
Local clock offset: 3.849 ms
Remote clock offset: 7.732 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 42.724 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 42.724 ms
Loss rate: 0.00%
```

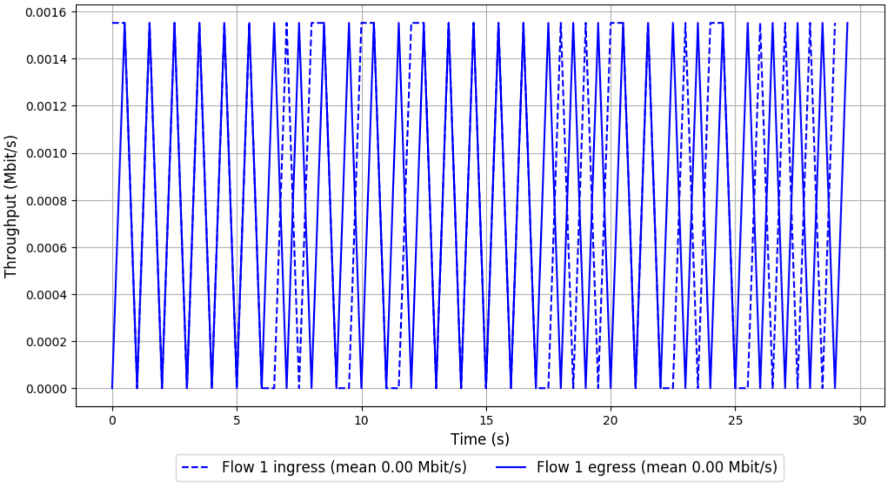
Run 7: Report of Verus — Data Link

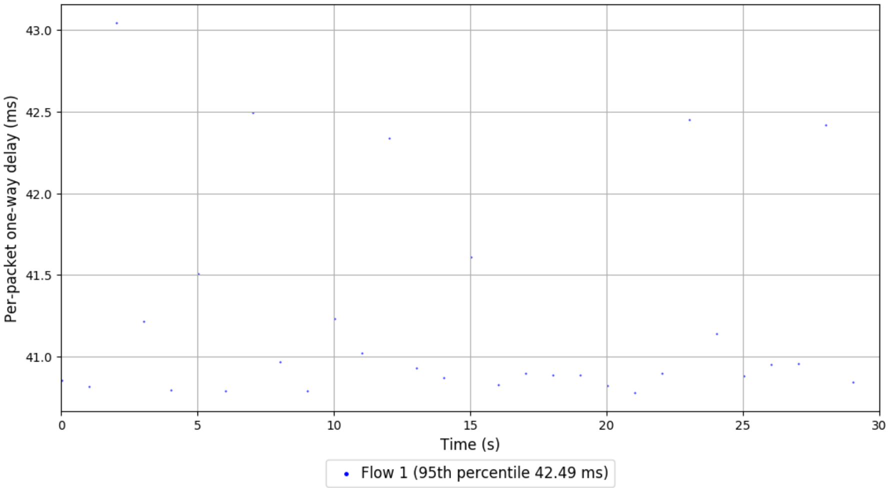




```
Run 8: Statistics of Verus

Start at: 2018-05-25 03:51:19
End at: 2018-05-25 03:51:49
Local clock offset: 2.32 ms
Remote clock offset: 9.379 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 42.494 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 42.494 ms
Loss rate: 0.00%
```

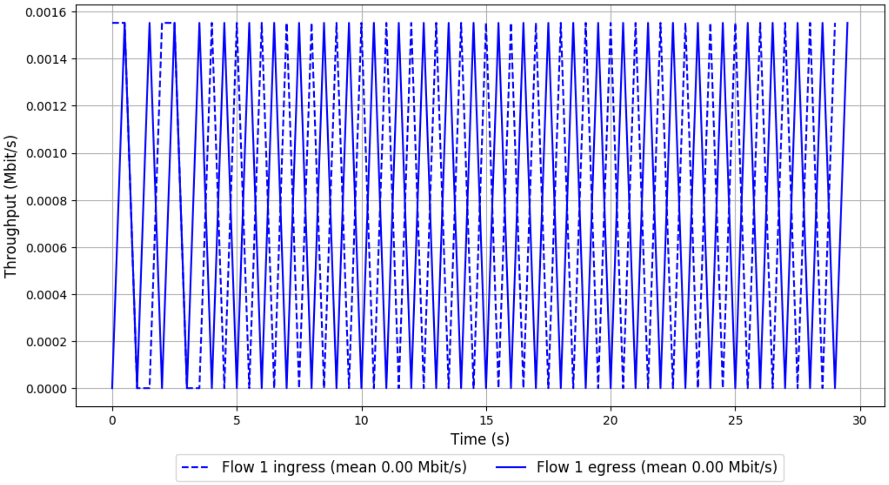
Run 8: Report of Verus — Data Link

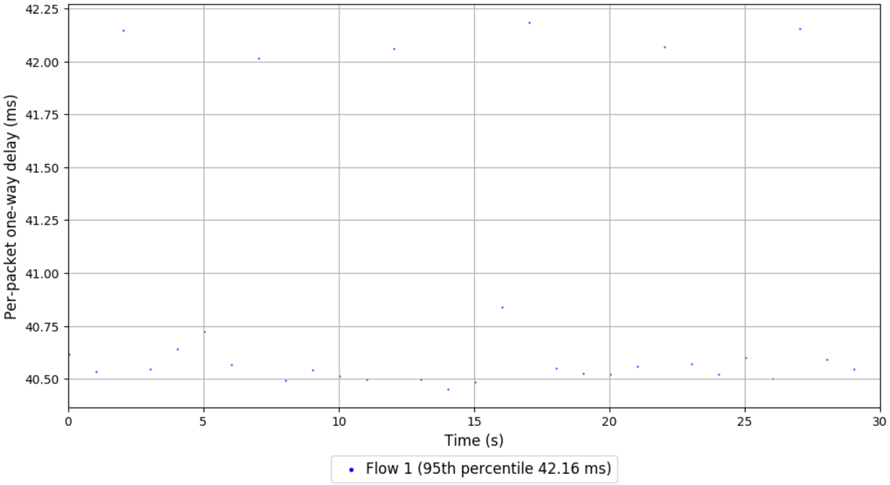




```
Run 9: Statistics of Verus

Start at: 2018-05-25 04:12:59
End at: 2018-05-25 04:13:29
Local clock offset: 2.134 ms
Remote clock offset: 10.959 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 42.157 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 42.157 ms
Loss rate: 0.00%
```

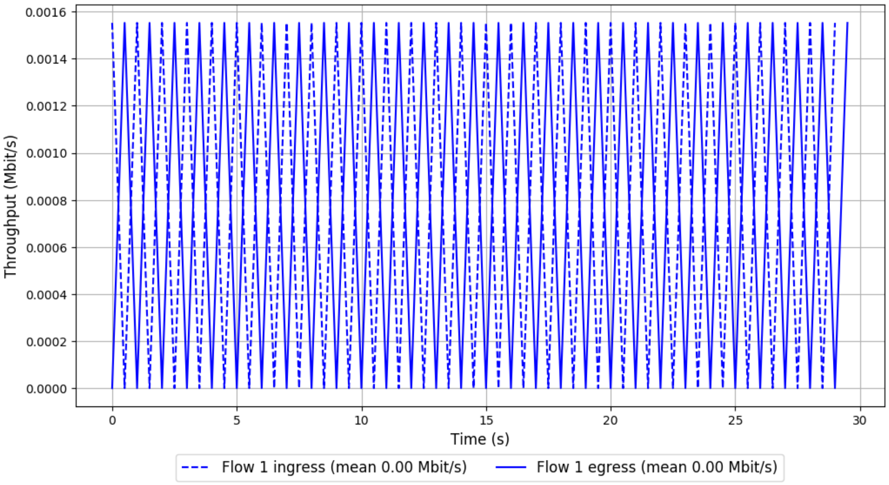
Run 9: Report of Verus — Data Link

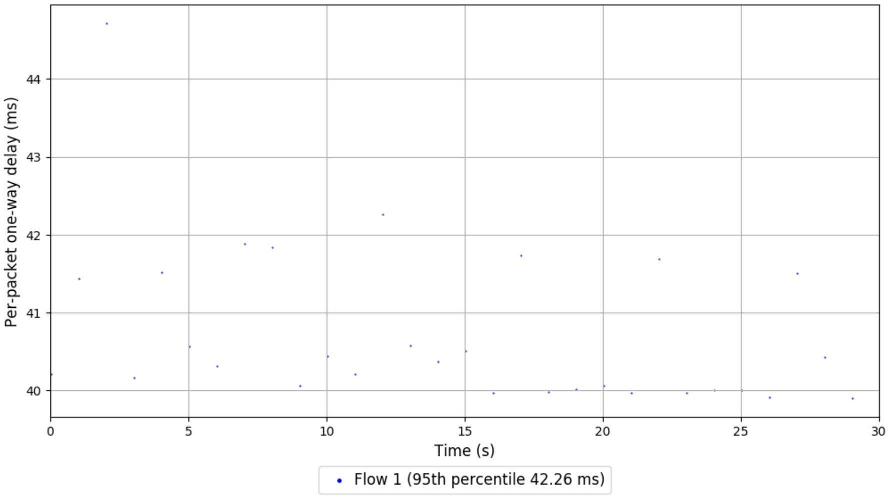




```
Run 10: Statistics of Verus

Start at: 2018-05-25 04:33:39
End at: 2018-05-25 04:34:09
Local clock offset: 2.552 ms
Remote clock offset: 2.31 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 42.261 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 42.261 ms
Loss rate: 0.00%
```

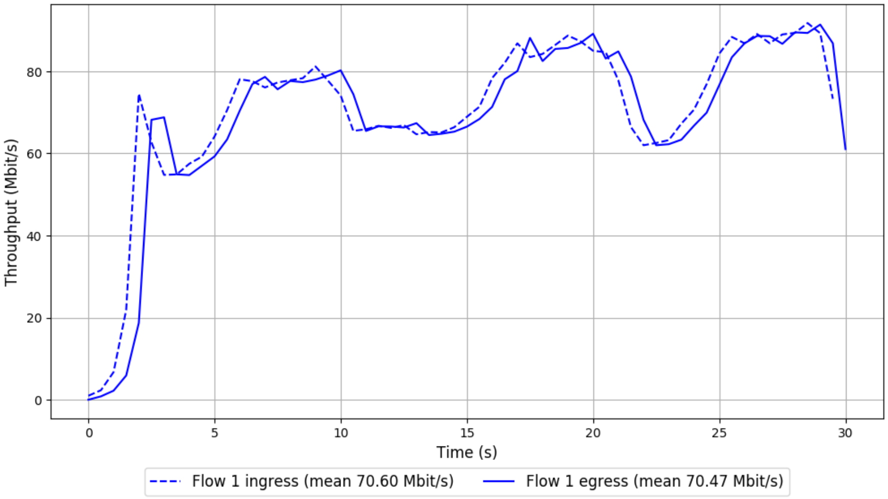
Run 10: Report of Verus — Data Link

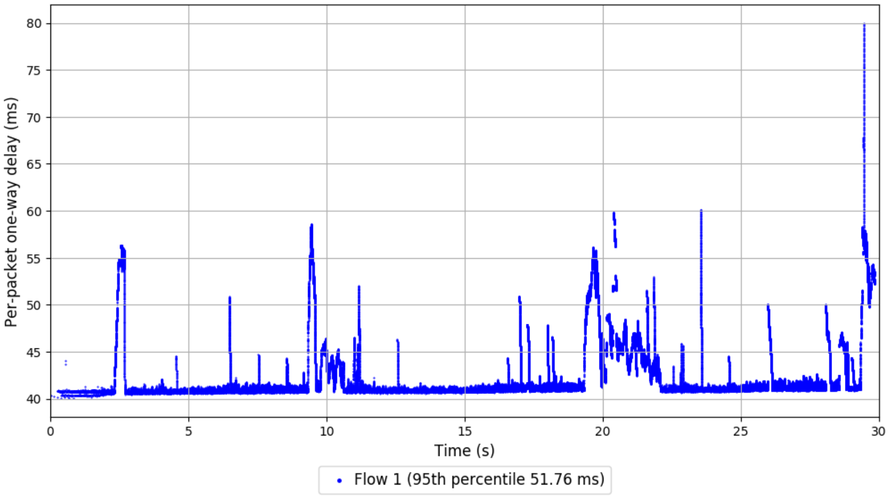




```
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 01:26:57
End at: 2018-05-25 01:27:27
Local clock offset: 3.929 ms
Remote clock offset: 0.889 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 51.762 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 70.47 Mbit/s
95th percentile per-packet one-way delay: 51.762 ms
Loss rate: 0.57%
```

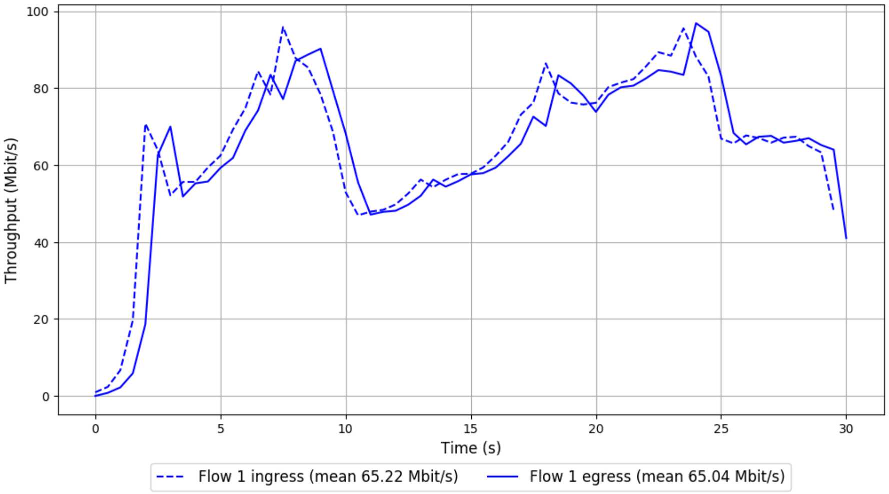
Run 1: Report of PCC-Vivace — Data Link

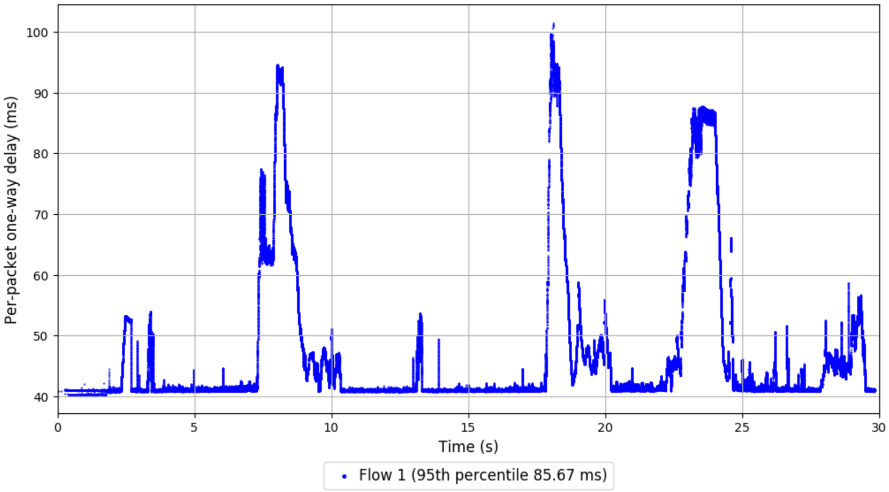




```
Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 01:47:36
End at: 2018-05-25 01:48:06
Local clock offset: -1.075 ms
Remote clock offset: 0.858 ms

# Below is generated by plot.py at 2018-05-25 05:08:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.04 Mbit/s
95th percentile per-packet one-way delay: 85.673 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 65.04 Mbit/s
95th percentile per-packet one-way delay: 85.673 ms
Loss rate: 0.63%
```

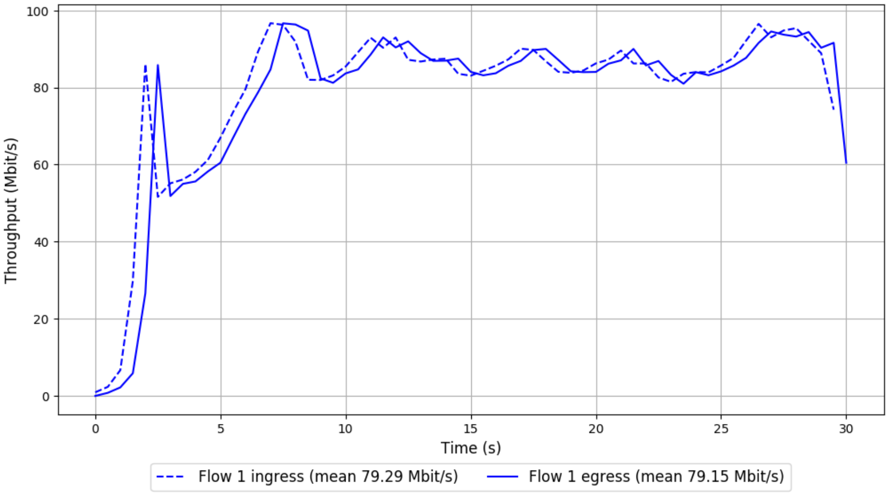
Run 2: Report of PCC-Vivace — Data Link

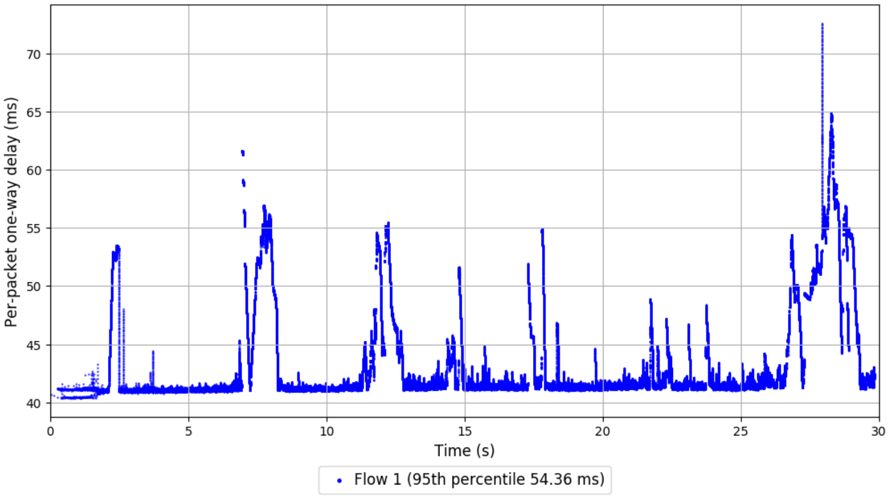




```
Run 3: Statistics of PCC-Vivace

Start at: 2018-05-25 02:08:17
End at: 2018-05-25 02:08:47
Local clock offset: 0.657 ms
Remote clock offset: 1.398 ms

# Below is generated by plot.py at 2018-05-25 05:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.15 Mbit/s
95th percentile per-packet one-way delay: 54.359 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 79.15 Mbit/s
95th percentile per-packet one-way delay: 54.359 ms
Loss rate: 0.55%
```

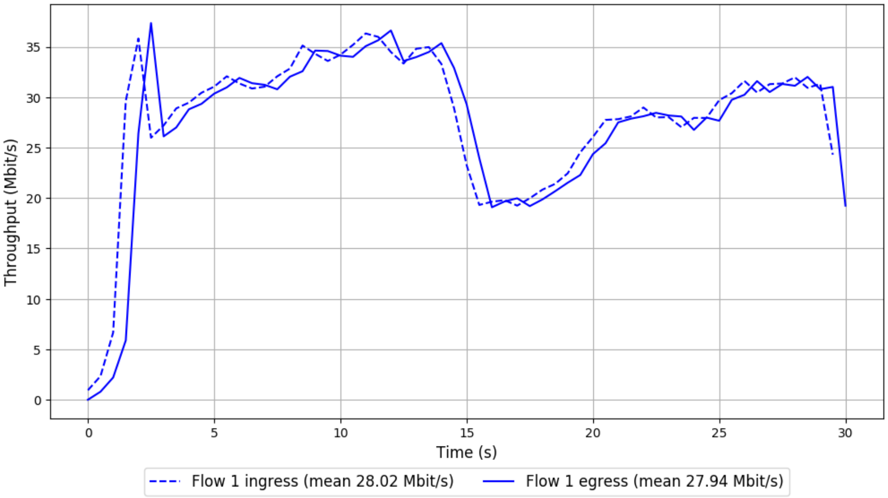
Run 3: Report of PCC-Vivace — Data Link

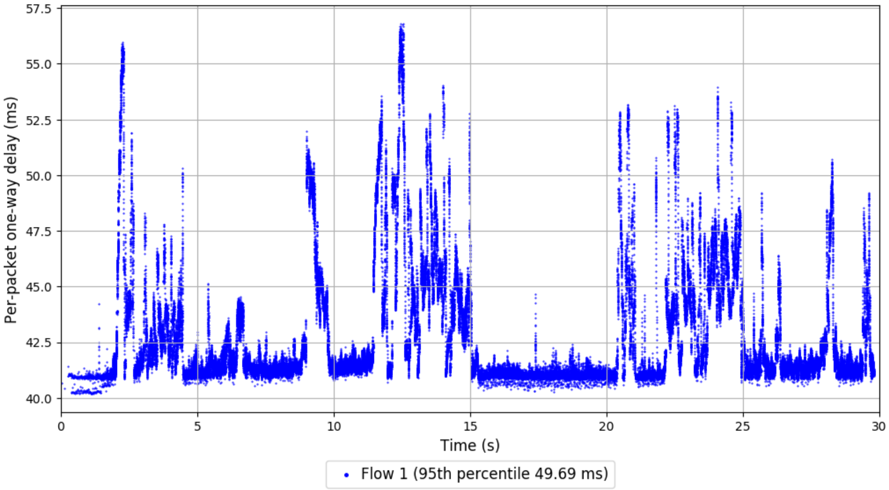




```
Run 4: Statistics of PCC-Vivace

Start at: 2018-05-25 02:28:56
End at: 2018-05-25 02:29:26
Local clock offset: 1.629 ms
Remote clock offset: 3.78 ms

# Below is generated by plot.py at 2018-05-25 05:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 27.94 Mbit/s
95th percentile per-packet one-way delay: 49.687 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 27.94 Mbit/s
95th percentile per-packet one-way delay: 49.687 ms
Loss rate: 0.66%
```

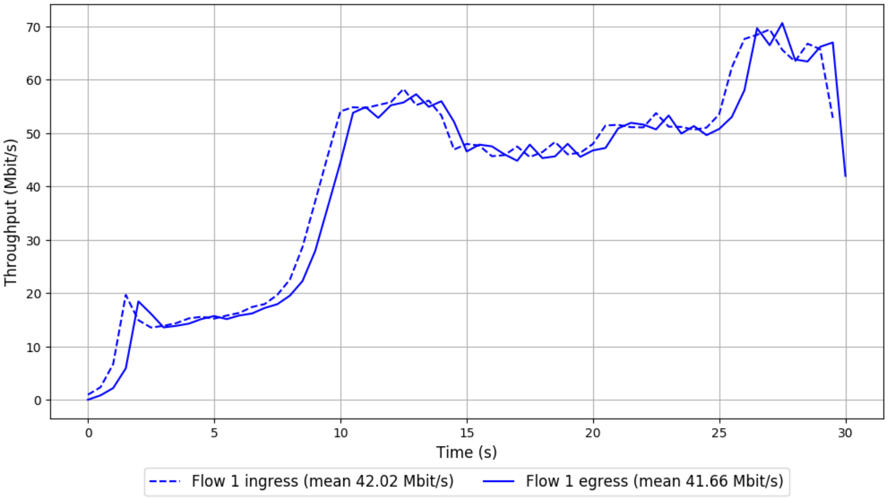
Run 4: Report of PCC-Vivace — Data Link

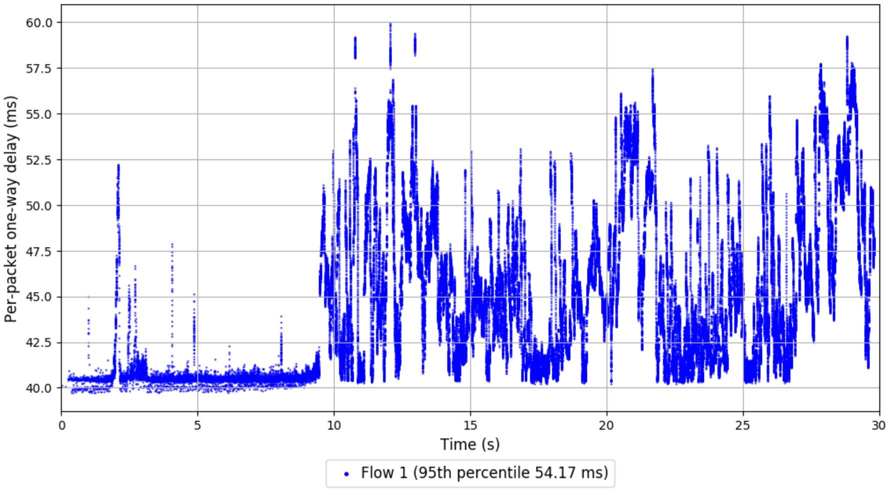




```
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-25 02:49:37
End at: 2018-05-25 02:50:07
Local clock offset: 2.695 ms
Remote clock offset: 4.862 ms

# Below is generated by plot.py at 2018-05-25 05:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.66 Mbit/s
95th percentile per-packet one-way delay: 54.175 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 41.66 Mbit/s
95th percentile per-packet one-way delay: 54.175 ms
Loss rate: 1.25%
```

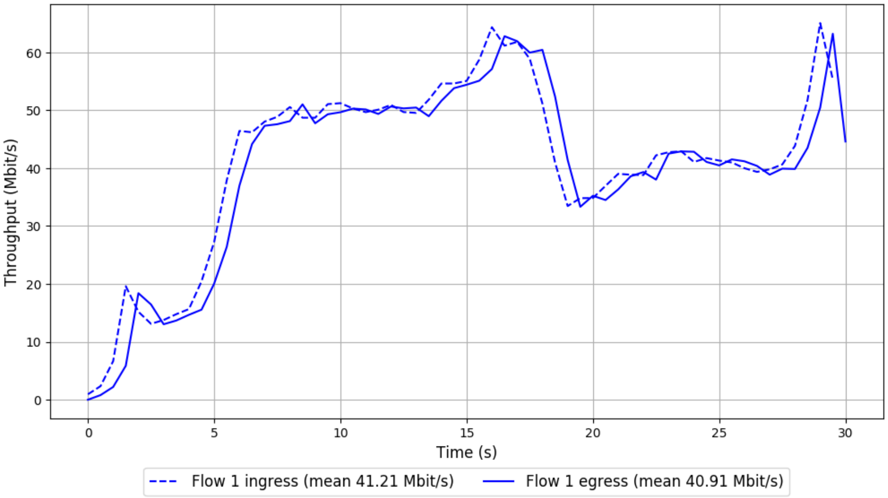
Run 5: Report of PCC-Vivace — Data Link

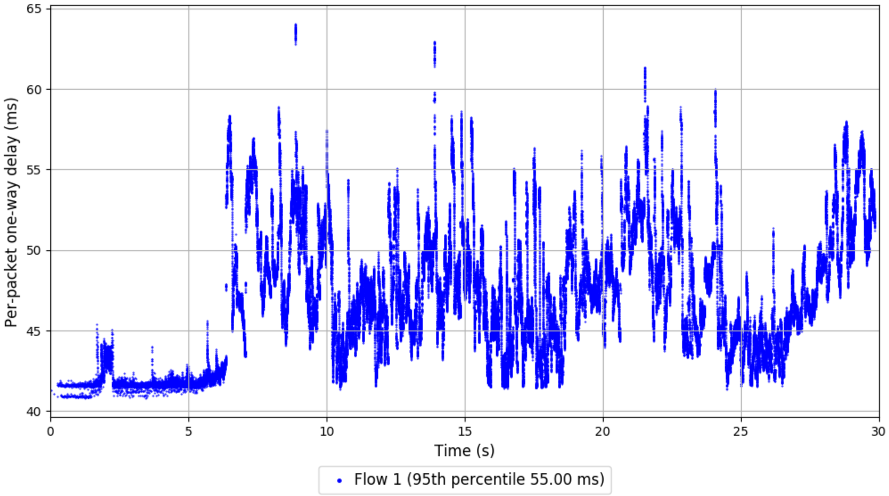




```
Run 6: Statistics of PCC-Vivace

Start at: 2018-05-25 03:10:15
End at: 2018-05-25 03:10:45
Local clock offset: 4.506 ms
Remote clock offset: 6.273 ms

# Below is generated by plot.py at 2018-05-25 05:08:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 55.002 ms
Loss rate: 1.12%
-- Flow 1:
Average throughput: 40.91 Mbit/s
95th percentile per-packet one-way delay: 55.002 ms
Loss rate: 1.12%
```

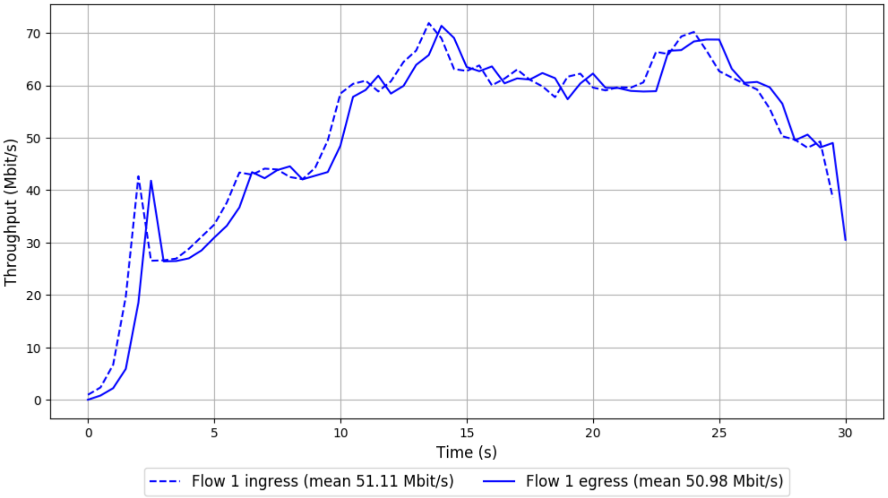
Run 6: Report of PCC-Vivace — Data Link

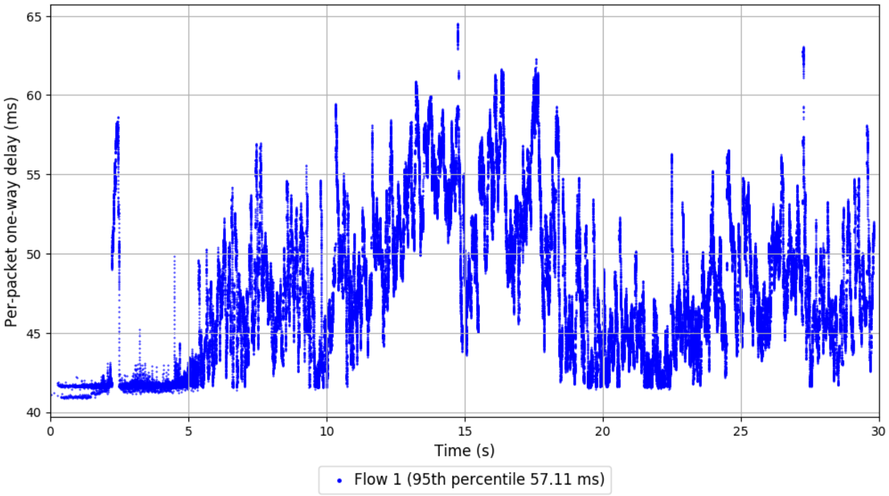




```
Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 03:31:42
End at: 2018-05-25 03:32:12
Local clock offset: 3.747 ms
Remote clock offset: 7.816 ms

# Below is generated by plot.py at 2018-05-25 05:08:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.98 Mbit/s
95th percentile per-packet one-way delay: 57.110 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 50.98 Mbit/s
95th percentile per-packet one-way delay: 57.110 ms
Loss rate: 0.65%
```

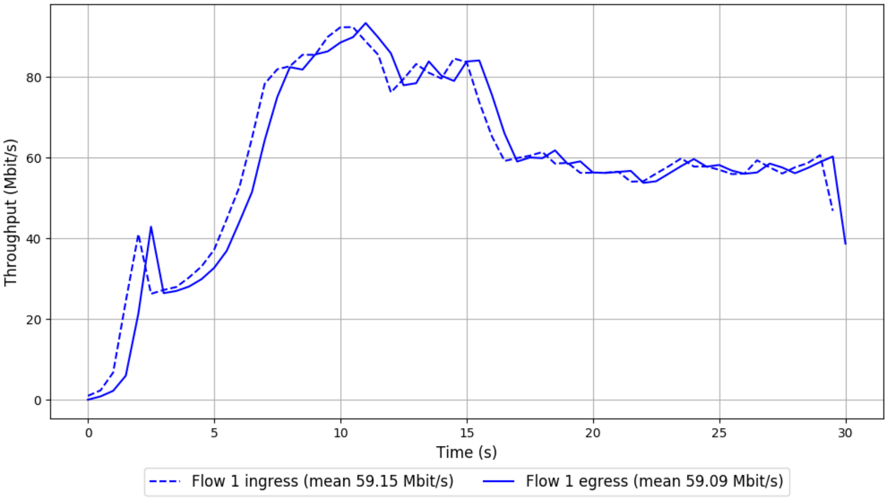
Run 7: Report of PCC-Vivace — Data Link

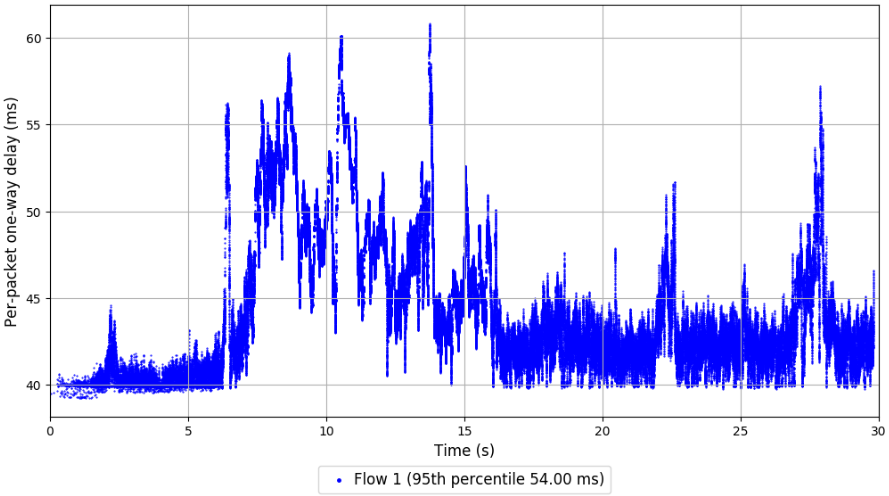




```
Run 8: Statistics of PCC-Vivace

Start at: 2018-05-25 03:52:34
End at: 2018-05-25 03:53:04
Local clock offset: 2.012 ms
Remote clock offset: 9.4 ms

# Below is generated by plot.py at 2018-05-25 05:08:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.09 Mbit/s
95th percentile per-packet one-way delay: 54.002 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 59.09 Mbit/s
95th percentile per-packet one-way delay: 54.002 ms
Loss rate: 0.46%
```

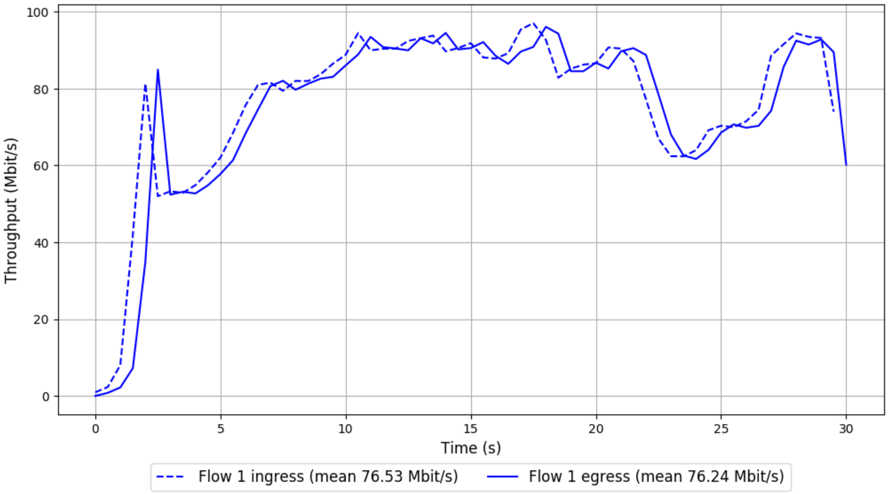
Run 8: Report of PCC-Vivace — Data Link

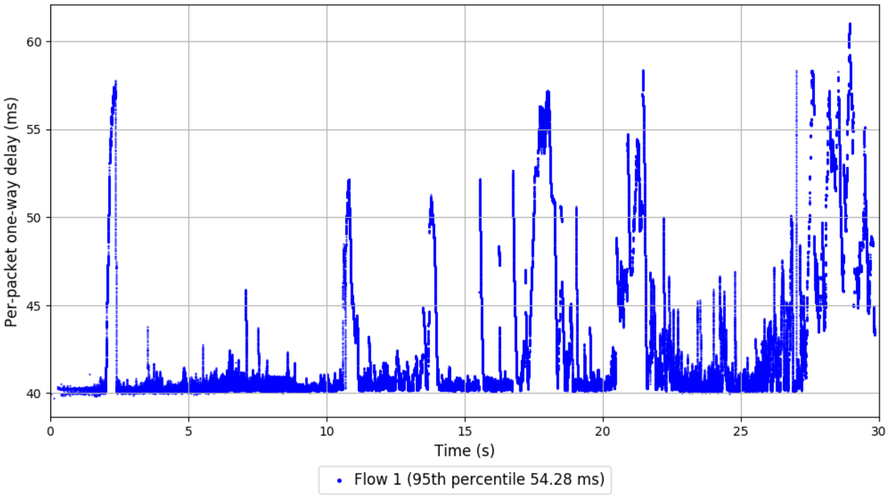




```
Run 9: Statistics of PCC-Vivace

Start at: 2018-05-25 04:14:14
End at: 2018-05-25 04:14:44
Local clock offset: 2.396 ms
Remote clock offset: 10.996 ms

# Below is generated by plot.py at 2018-05-25 05:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.24 Mbit/s
95th percentile per-packet one-way delay: 54.279 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 76.24 Mbit/s
95th percentile per-packet one-way delay: 54.279 ms
Loss rate: 0.74%
```

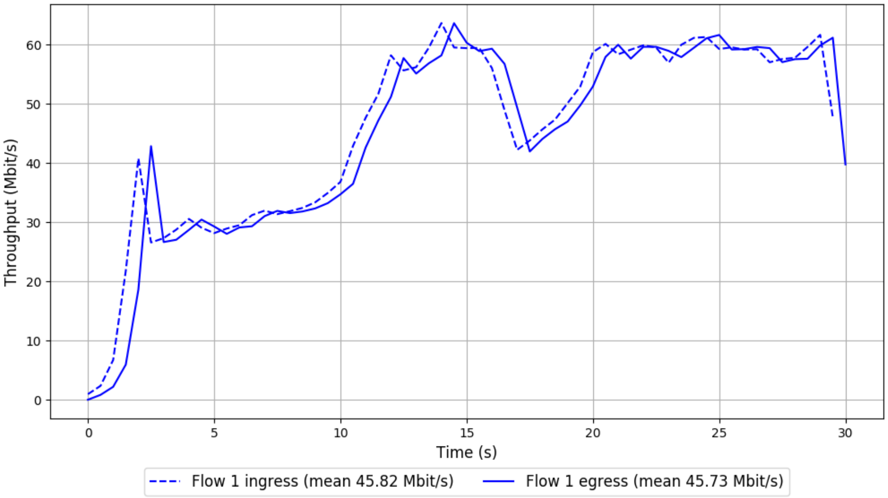
Run 9: Report of PCC-Vivace — Data Link

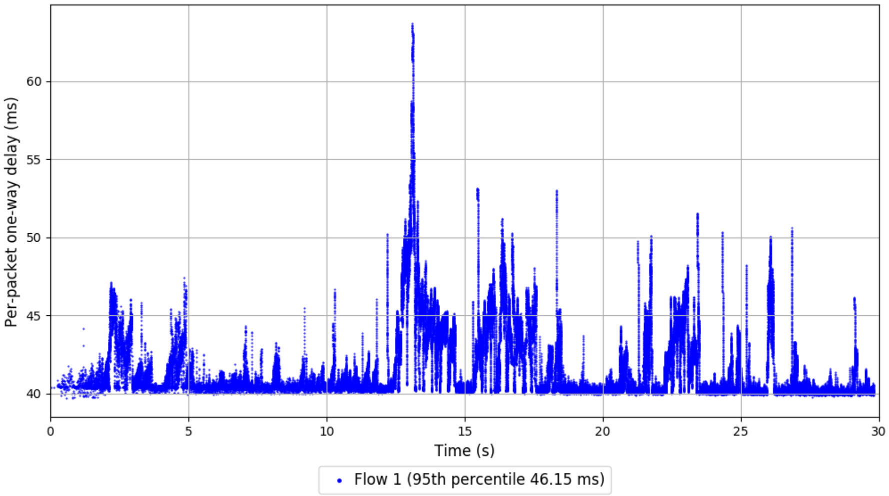




```
Run 10: Statistics of PCC-Vivace

Start at: 2018-05-25 04:34:54
End at: 2018-05-25 04:35:24
Local clock offset: 2.557 ms
Remote clock offset: 1.193 ms

# Below is generated by plot.py at 2018-05-25 05:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.73 Mbit/s
95th percentile per-packet one-way delay: 46.149 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 45.73 Mbit/s
95th percentile per-packet one-way delay: 46.149 ms
Loss rate: 0.55%
```

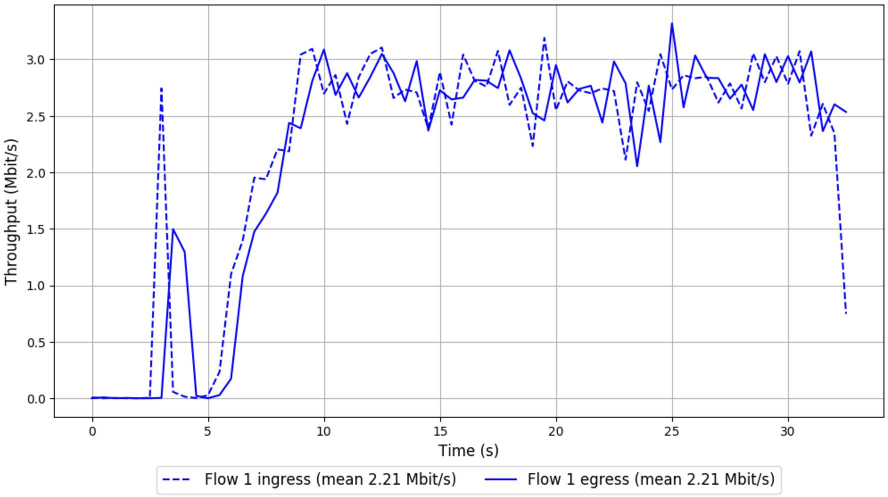
Run 10: Report of PCC-Vivace — Data Link

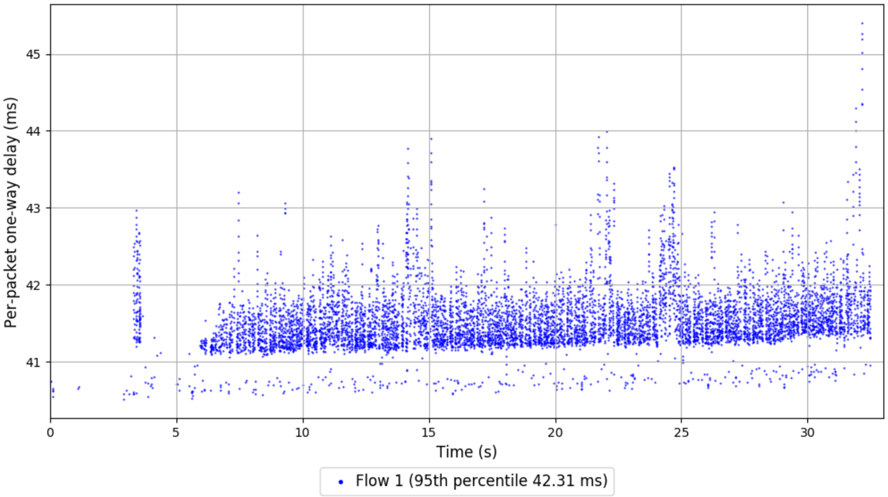




```
Run 1: Statistics of WebRTC media

Start at: 2018-05-25 01:30:54
End at: 2018-05-25 01:31:25
Local clock offset: 2.08 ms
Remote clock offset: 1.163 ms

# Below is generated by plot.py at 2018-05-25 05:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 42.312 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 42.312 ms
Loss rate: 0.52%
```

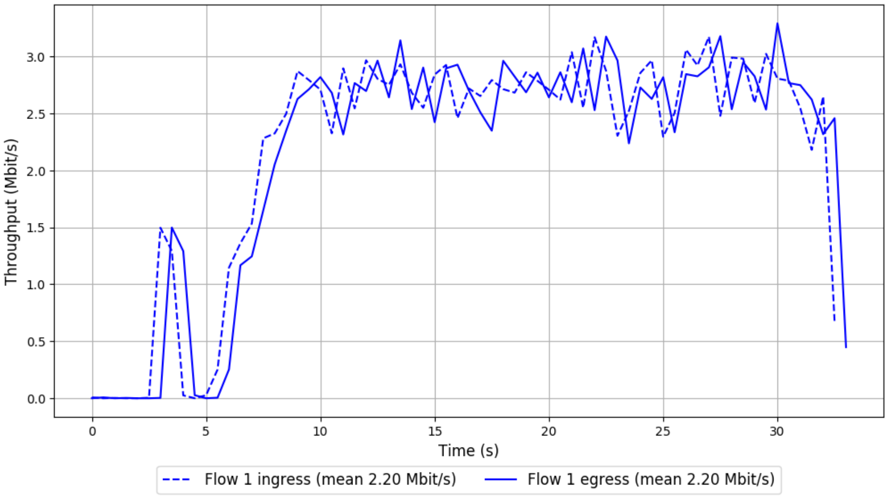
Run 1: Report of WebRTC media — Data Link

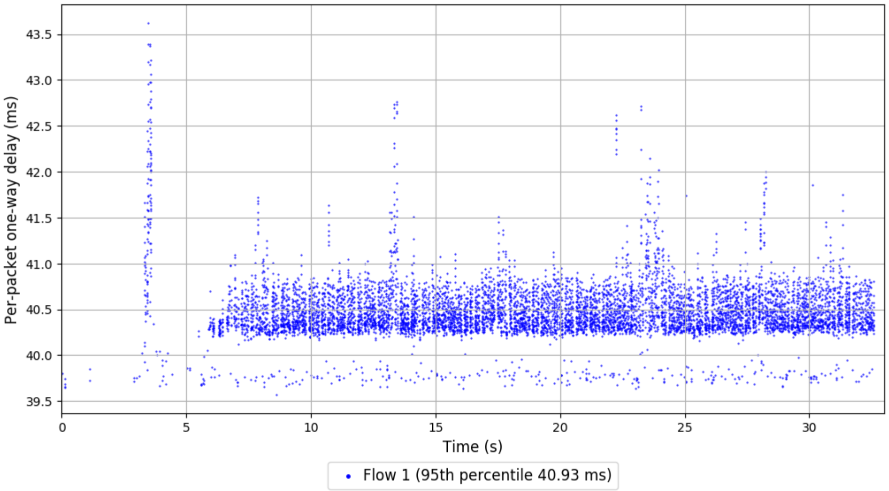




```
Run 2: Statistics of WebRTC media

Start at: 2018-05-25 01:51:34
End at: 2018-05-25 01:52:04
Local clock offset: -1.278 ms
Remote clock offset: 0.794 ms

# Below is generated by plot.py at 2018-05-25 05:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 40.929 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 40.929 ms
Loss rate: 0.31%
```

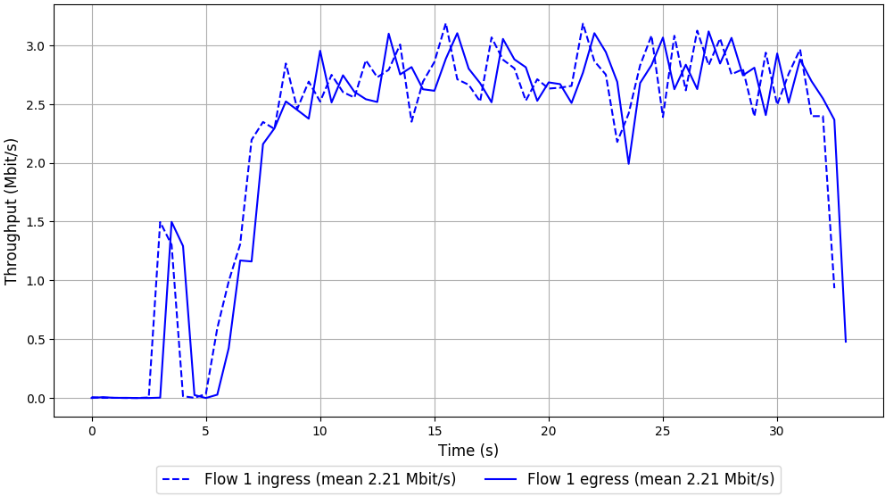
Run 2: Report of WebRTC media — Data Link

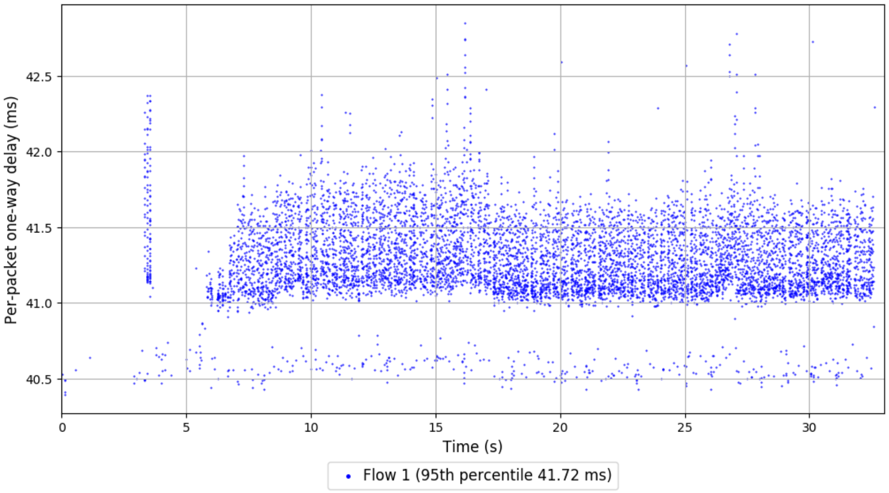




```
Run 3: Statistics of WebRTC media

Start at: 2018-05-25 02:12:16
End at: 2018-05-25 02:12:46
Local clock offset: 0.888 ms
Remote clock offset: 2.073 ms

# Below is generated by plot.py at 2018-05-25 05:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 41.724 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 41.724 ms
Loss rate: 0.47%
```

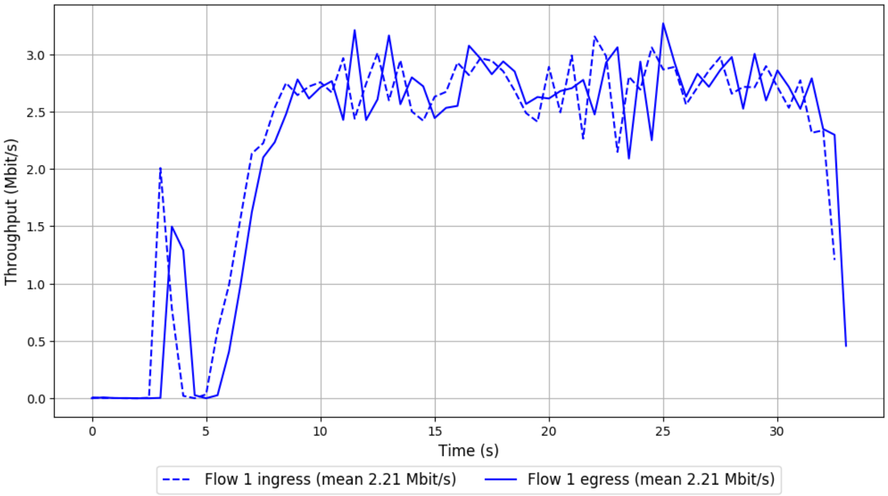
Run 3: Report of WebRTC media — Data Link

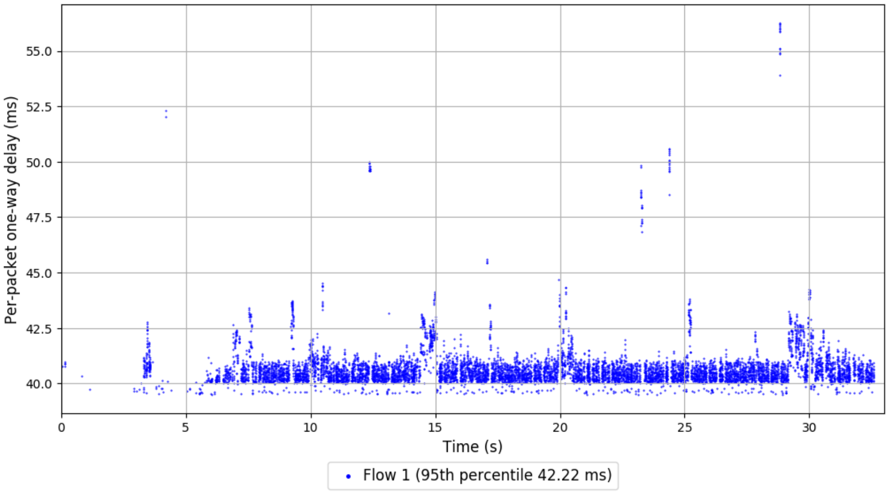




```
Run 4: Statistics of WebRTC media

Start at: 2018-05-25 02:32:51
End at: 2018-05-25 02:33:21
Local clock offset: 1.904 ms
Remote clock offset: 4.036 ms

# Below is generated by plot.py at 2018-05-25 05:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 42.216 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 42.216 ms
Loss rate: 0.67%
```

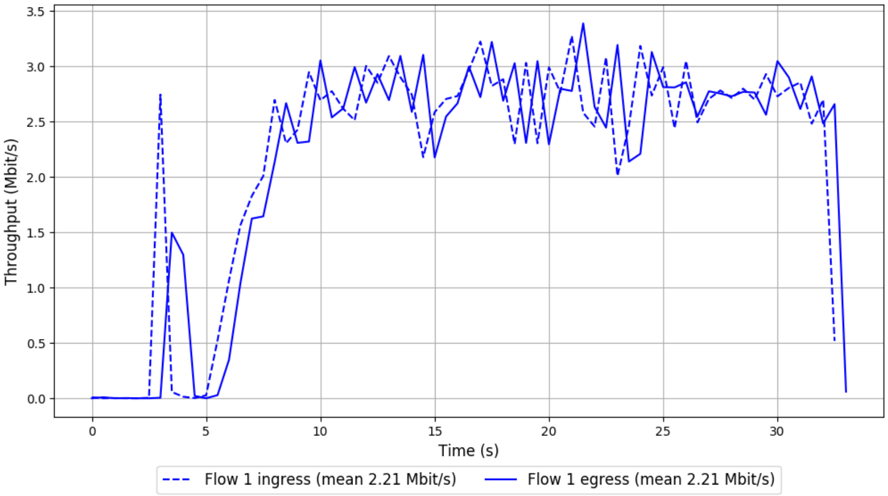
Run 4: Report of WebRTC media — Data Link

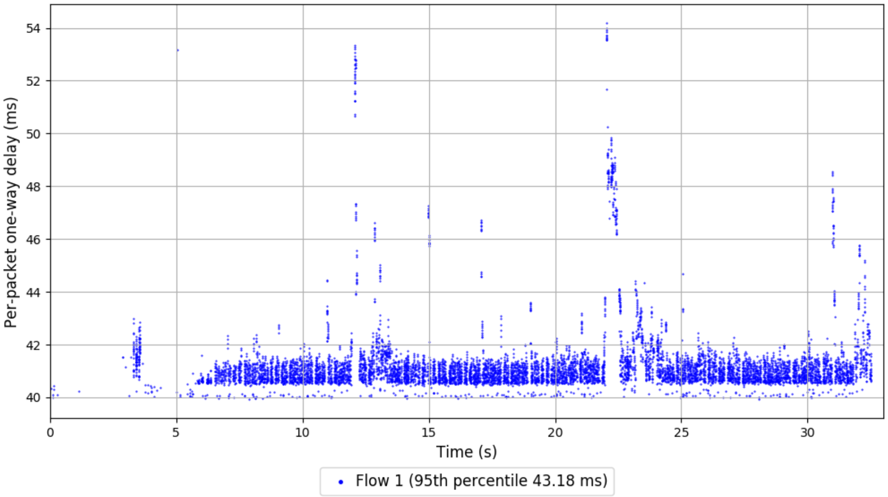




```
Run 5: Statistics of WebRTC media

Start at: 2018-05-25 02:53:35
End at: 2018-05-25 02:54:05
Local clock offset: 2.943 ms
Remote clock offset: 5.094 ms

# Below is generated by plot.py at 2018-05-25 05:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 43.179 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 43.179 ms
Loss rate: 0.48%
```

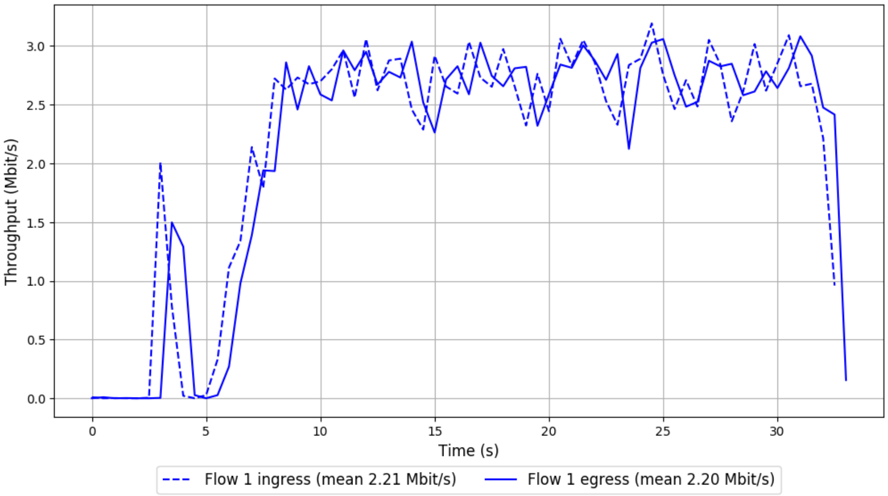
Run 5: Report of WebRTC media — Data Link

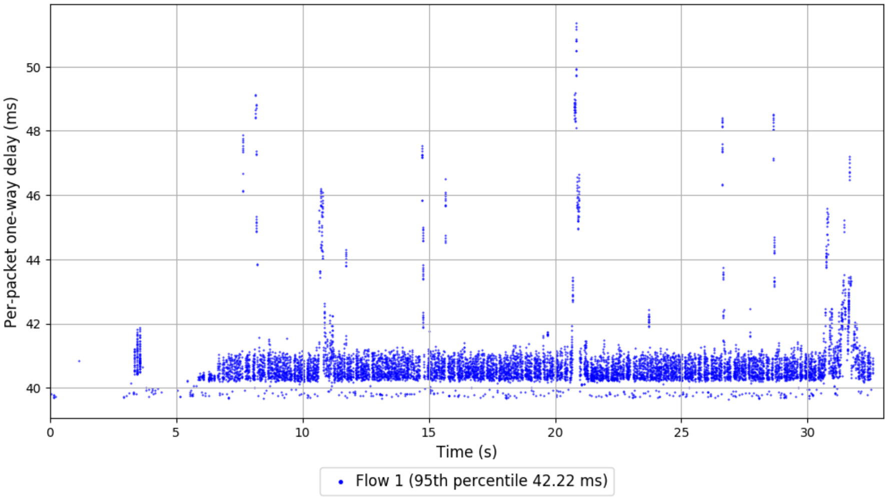




```
Run 6: Statistics of WebRTC media

Start at: 2018-05-25 03:14:16
End at: 2018-05-25 03:14:46
Local clock offset: 4.476 ms
Remote clock offset: 6.556 ms

# Below is generated by plot.py at 2018-05-25 05:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 42.219 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 42.219 ms
Loss rate: 0.56%
```

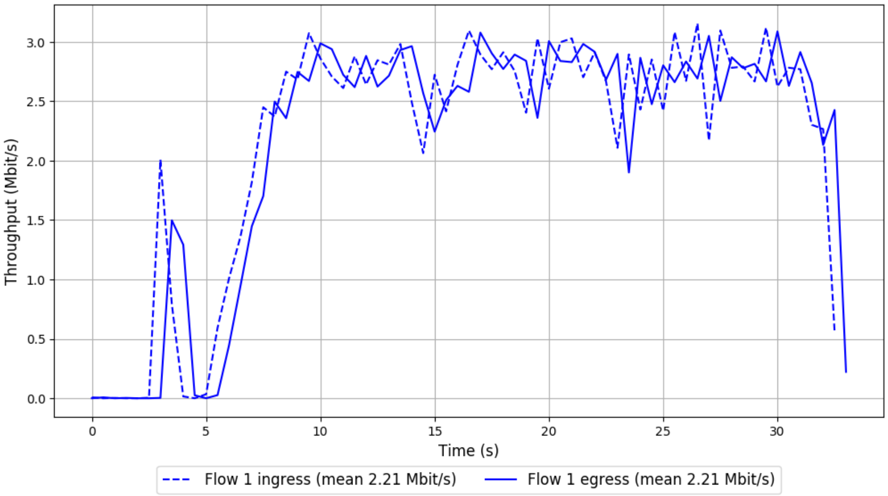
Run 6: Report of WebRTC media — Data Link

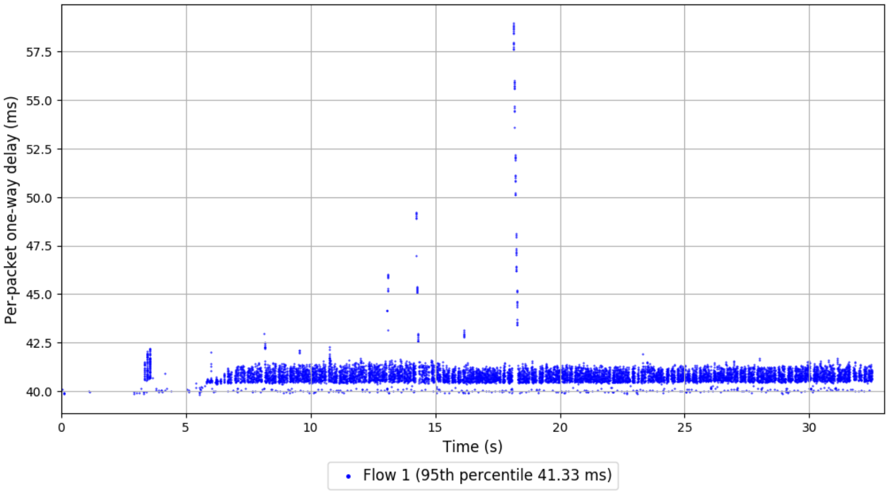




```
Run 7: Statistics of WebRTC media

Start at: 2018-05-25 03:35:44
End at: 2018-05-25 03:36:14
Local clock offset: 3.003 ms
Remote clock offset: 8.053 ms

# Below is generated by plot.py at 2018-05-25 05:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 41.326 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 2.21 Mbit/s
95th percentile per-packet one-way delay: 41.326 ms
Loss rate: 0.39%
```

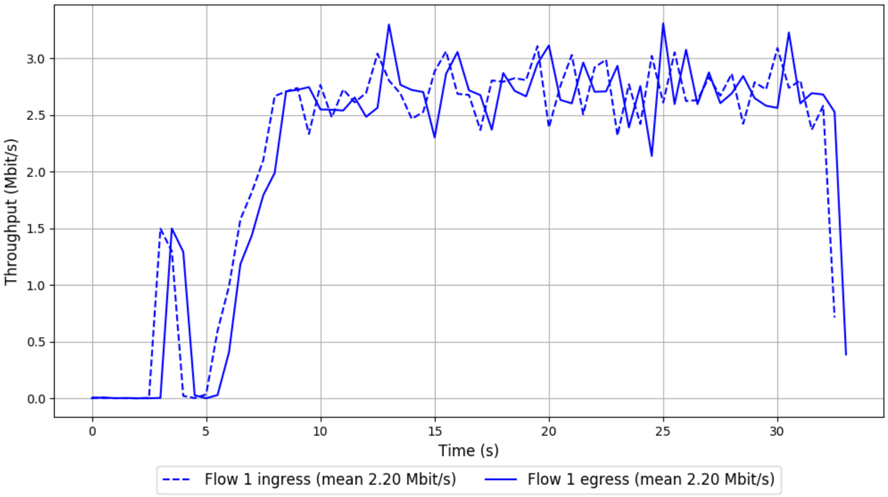
Run 7: Report of WebRTC media — Data Link

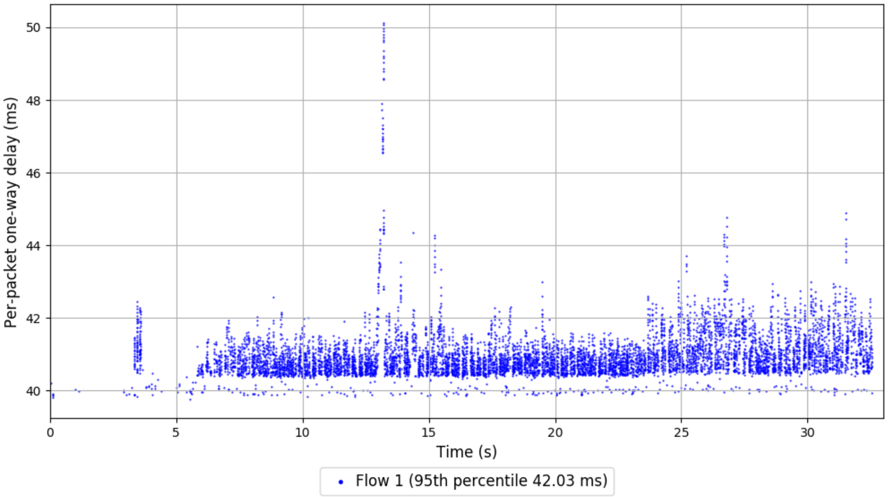




```
Run 8: Statistics of WebRTC media

Start at: 2018-05-25 03:56:36
End at: 2018-05-25 03:57:06
Local clock offset: 2.243 ms
Remote clock offset: 9.715 ms

# Below is generated by plot.py at 2018-05-25 05:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 42.034 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 42.034 ms
Loss rate: 0.39%
```

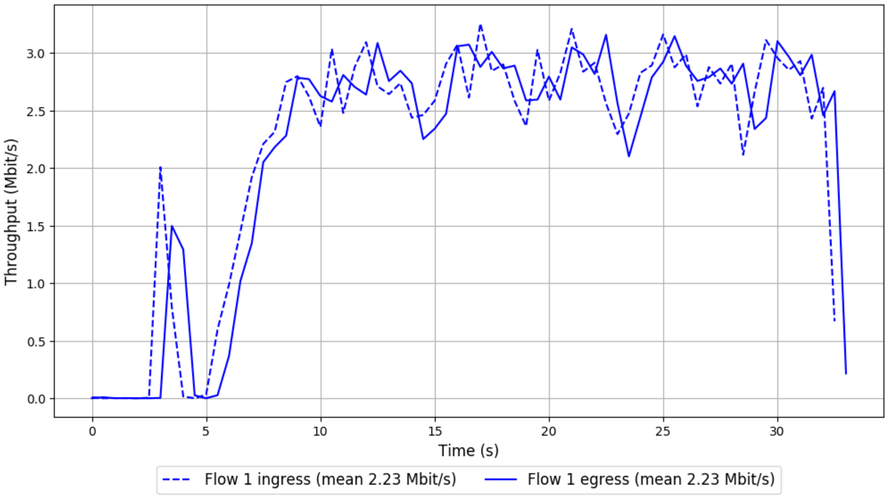
Run 8: Report of WebRTC media — Data Link

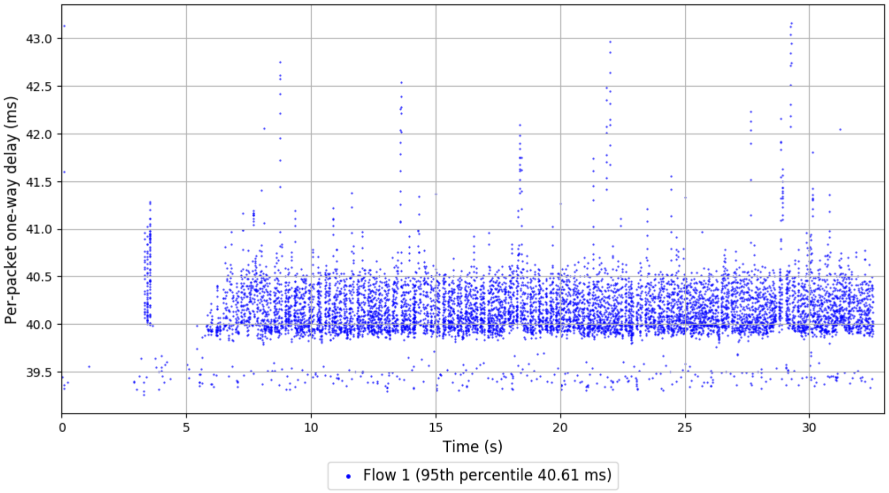




```
Run 9: Statistics of WebRTC media

Start at: 2018-05-25 04:18:12
End at: 2018-05-25 04:18:42
Local clock offset: 2.151 ms
Remote clock offset: 11.261 ms

# Below is generated by plot.py at 2018-05-25 05:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 40.610 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 40.610 ms
Loss rate: 0.46%
```

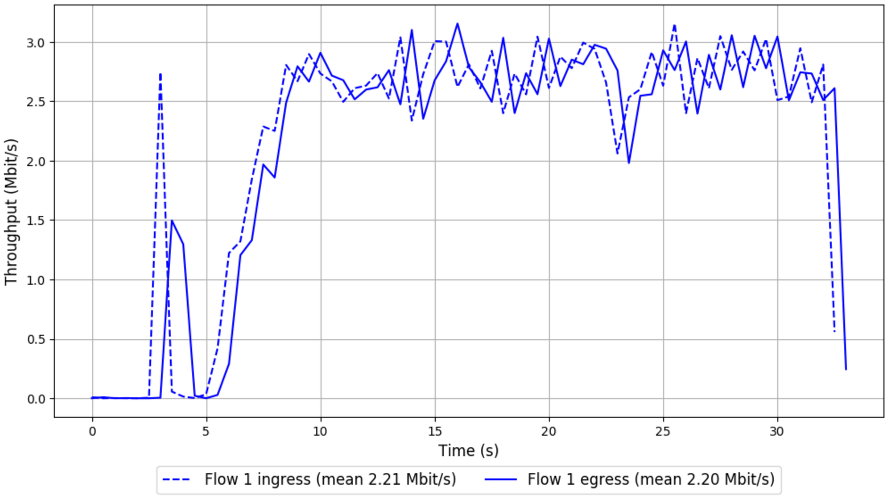
Run 9: Report of WebRTC media — Data Link



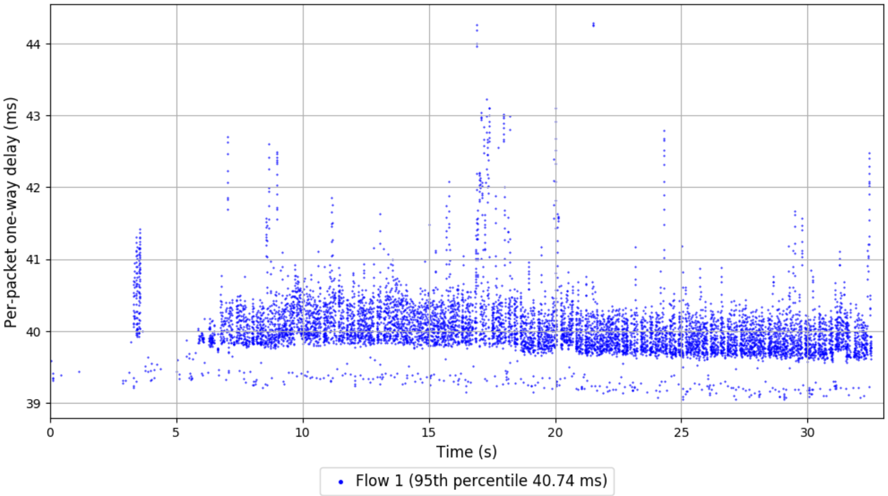


```
Run 10: Statistics of WebRTC media

Start at: 2018-05-25 04:38:50
End at: 2018-05-25 04:39:20
Local clock offset: 2.354 ms
Remote clock offset: -0.877 ms

# Below is generated by plot.py at 2018-05-25 05:08:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 40.745 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 40.745 ms
Loss rate: 0.49%
```

Run 10: Report of WebRTC media — Data Link



3.0
2.5
2.0
1.5
1.0
0.5
0.0
Throughput (Mbit/s)
0
5
10
15
20
25
30
Time (s)
Flow 1 ingress (mean 2.21 Mbit/s)
Flow 1 egress (mean 2.20 Mbit/s)



44
43
42
41
40
39
Per-packet one-way delay (ms)
0
5
10
15
20
25
30
Time (s)
Flow 1 (95th percentile 40.74 ms)