Pantheon Report

Generated at 2018-06-19 05:05:01 (UTC).

Data path: Colombia Ethernet (*remote*) →AWS Brazil 2 Ethernet (*local*).

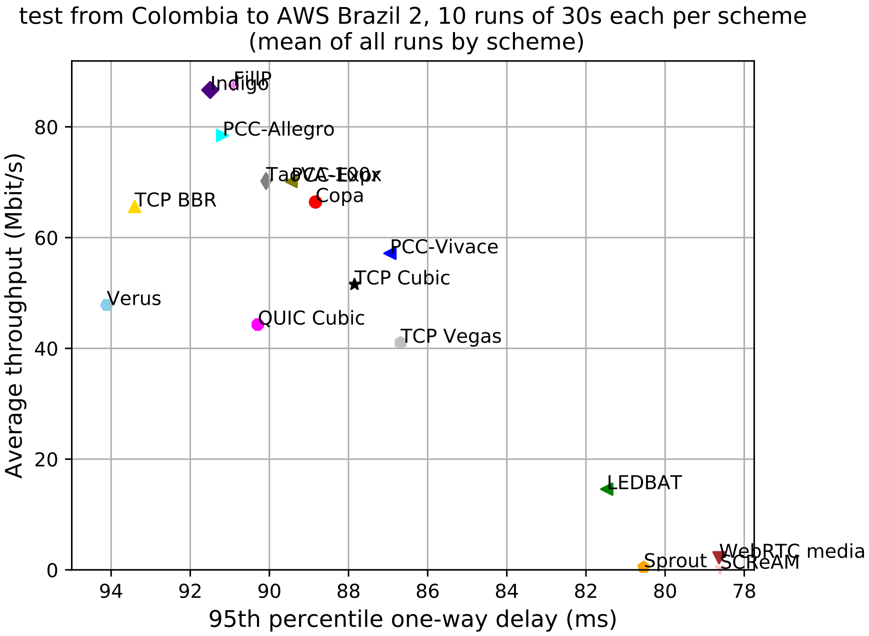
Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

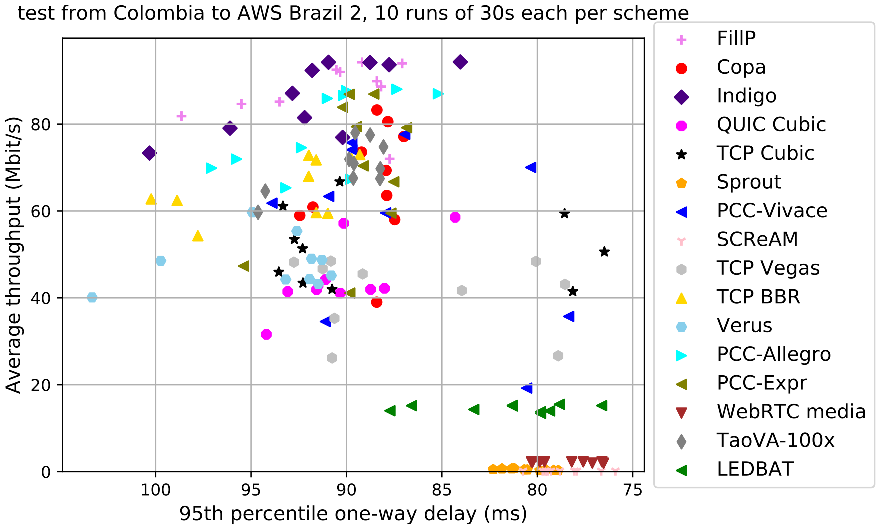
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

```
Git summary:
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
 M receiver/src/buffer.h
 M receiver/src/core.cpp
 M sender/src/buffer.h
 M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
 M src/ScreamClient
 M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
 M src/verus.hpp
 M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```



test from Colombia to AWS Brazil 2, 10 runs of 30s each per scheme
(mean of all runs by scheme)
FillP
Indigo
PCC-Allegro
TaoVA-100x
PCC-Expr
Copa
TCP BBR
PCC-Vivace
TCP Cubic
Verus
QUIC Cubic
TCP Vegas
LEDBAT
WebRTC media
Sprout
SCReAM
Average throughput (Mbit/s)
0
20
40
60
80
94
92
90
88
86
84
82
80
78
95th percentile one-way delay (ms)



test from Colombia to AWS Brazil 2, 10 runs of 30s each per scheme
Average throughput (Mbit/s)
0
20
40
60
80
100
95
90
85
80
75
95th percentile one-way delay (ms)
FillP
Copa
Indigo
QUIC Cubic
TCP Cubic
Sprout
PCC-Vivace
SCReAM
TCP Vegas
TCP BBR
Verus
PCC-Allegro
PCC-Expr
WebRTC media
TaoVA-100x
LEDBAT

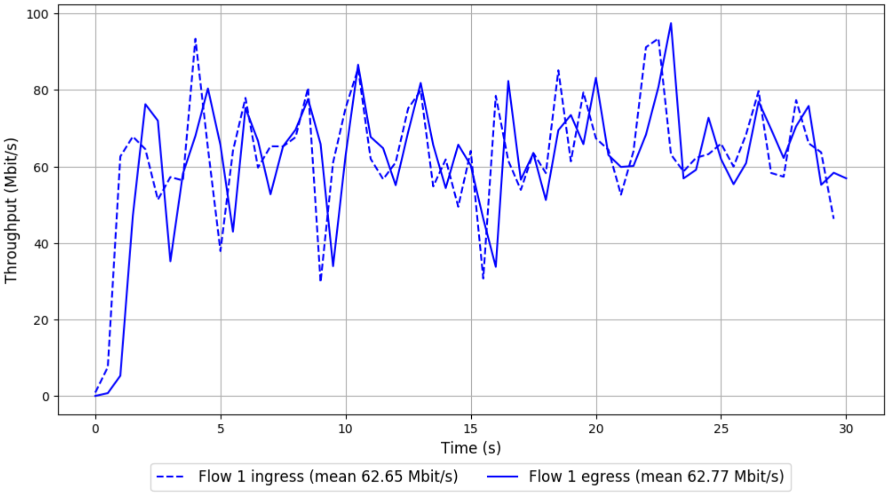
		mean avg tput (Mbit/s)	mean 95th-%ile delay (ms)	mean loss rate (%)
scheme	# runs	flow 1	flow 1	flow 1
TCP BBR	10	65.62	93.40	3.42
Copa	10	66.43	88.84	4.70
TCP Cubic	10	51.55	87.85	0.63
FillP	10	87.48	90.91	1.89
Indigo	10	86.66	91.50	0.94
LEDBAT	10	14.58	81.47	1.04
PCC-Allegro	10	78.42	91.18	0.62
PCC-Expr	10	70.12	89.45	1.40
QUIC Cubic	10	44.30	90.29	0.89
SCReAM	10	0.22	78.61	0.48
Sprout	10	0.48	80.54	0.36
TaoVA-100x	10	70.21	90.08	4.26
TCP Vegas	10	41.02	86.68	0.59
Verus	10	47.84	94.11	0.65
PCC-Vivace	10	57.17	86.95	0.78
WebRTC media	10	2.19	78.64	0.38

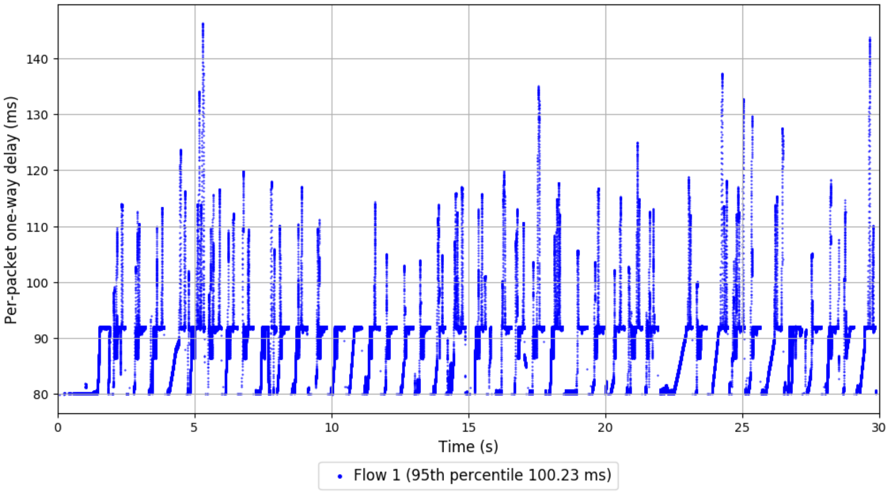
```
Run 1: Statistics of TCP BBR

Start at: 2018-06-19 01:48:32
End at: 2018-06-19 01:49:02
Local clock offset: -2.294 ms
Remote clock offset: 10.936 ms

# Below is generated by plot.py at 2018-06-19 04:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.77 Mbit/s
95th percentile per-packet one-way delay: 100.235 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 62.77 Mbit/s
95th percentile per-packet one-way delay: 100.235 ms
Loss rate: 0.44%
```

Run 1: Report of TCP BBR — Data Link



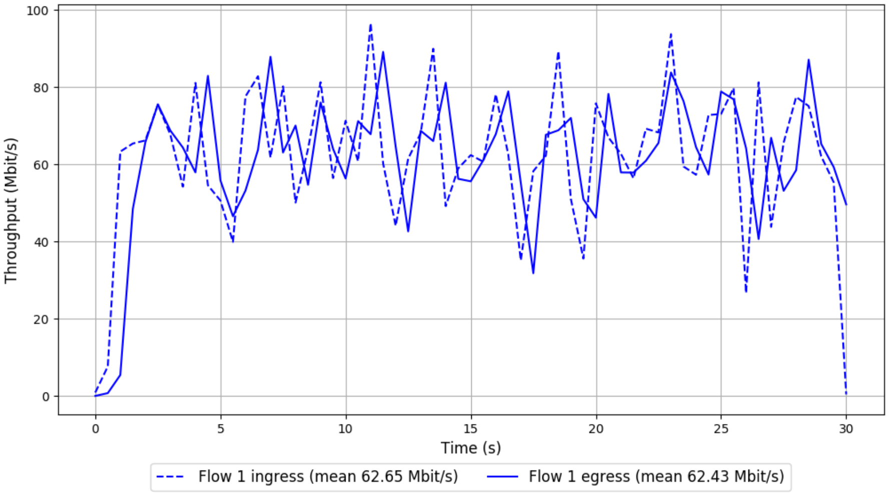


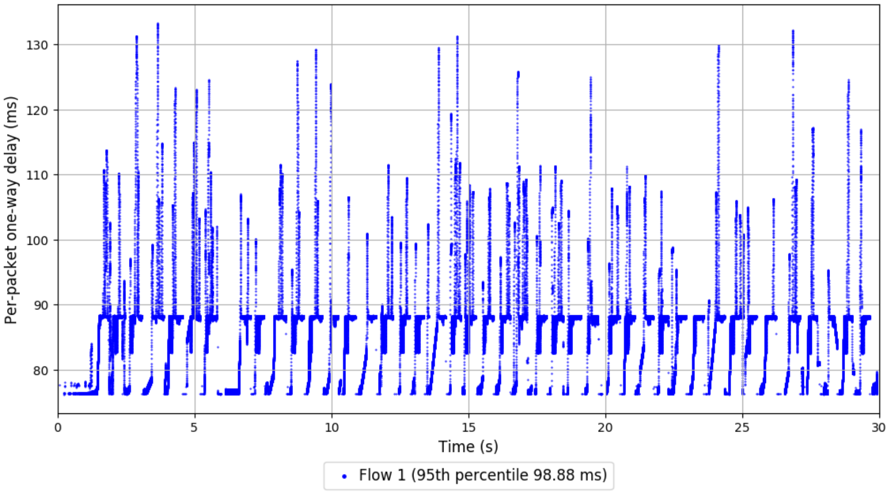
```
Run 2: Statistics of TCP BBR

Start at: 2018-06-19 02:06:59
End at: 2018-06-19 02:07:29
Local clock offset: -2.171 ms
Remote clock offset: 13.488 ms

# Below is generated by plot.py at 2018-06-19 04:50:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 62.43 Mbit/s
95th percentile per-packet one-way delay: 98.875 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 62.43 Mbit/s
95th percentile per-packet one-way delay: 98.875 ms
Loss rate: 0.86%
```

Run 2: Report of TCP BBR — Data Link



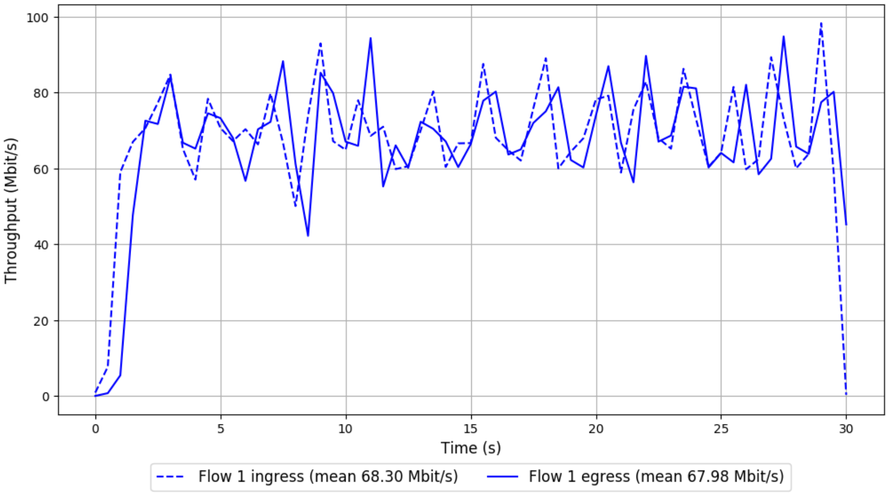


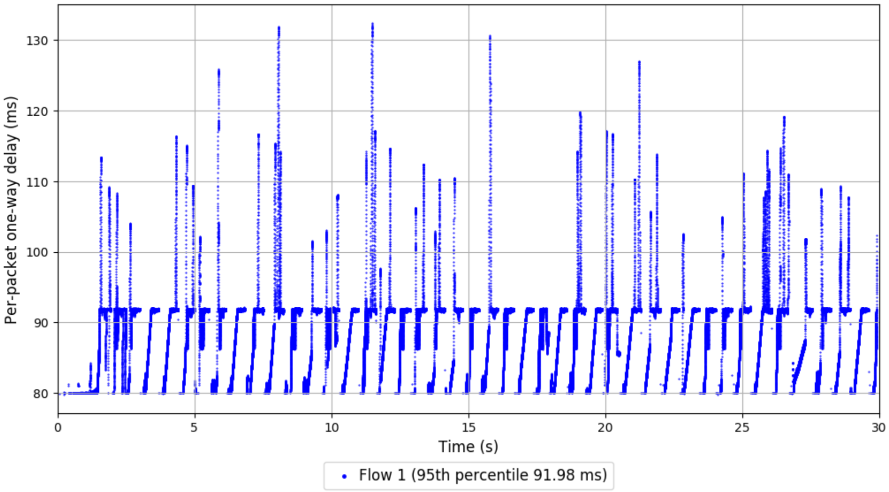
```
Run 3: Statistics of TCP BBR

Start at: 2018-06-19 02:25:26
End at: 2018-06-19 02:25:56
Local clock offset: -1.887 ms
Remote clock offset: 11.235 ms

# Below is generated by plot.py at 2018-06-19 04:50:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.98 Mbit/s
95th percentile per-packet one-way delay: 91.980 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 67.98 Mbit/s
95th percentile per-packet one-way delay: 91.980 ms
Loss rate: 1.00%
```

Run 3: Report of TCP BBR — Data Link



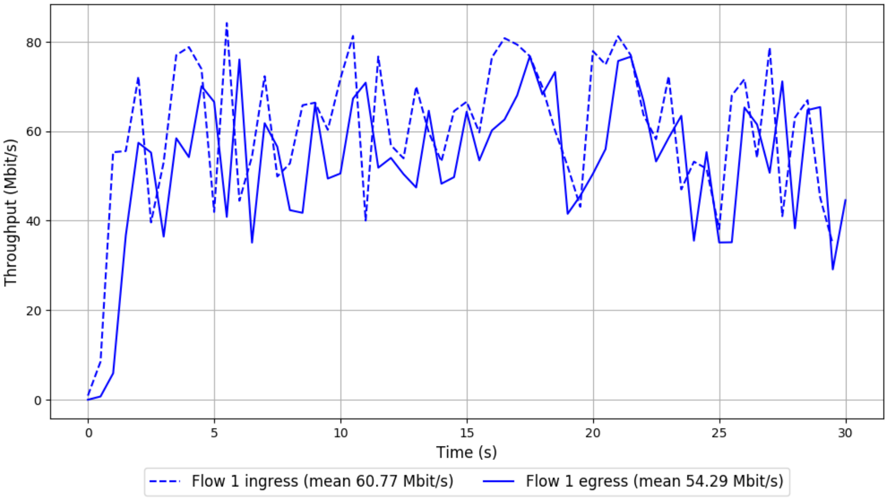


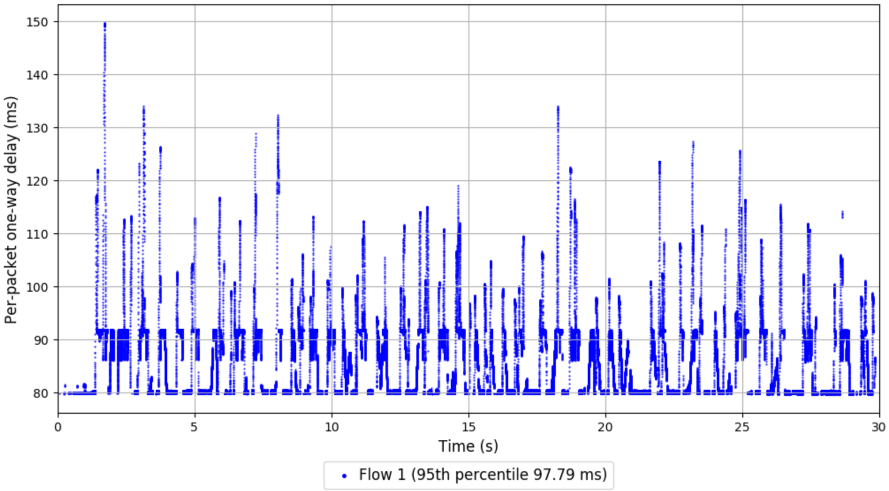
```
Run 4: Statistics of TCP BBR

Start at: 2018-06-19 02:43:59
End at: 2018-06-19 02:44:29
Local clock offset: -5.571 ms
Remote clock offset: 8.213 ms

# Below is generated by plot.py at 2018-06-19 04:50:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 54.29 Mbit/s
95th percentile per-packet one-way delay: 97.786 ms
Loss rate: 10.65%
-- Flow 1:
Average throughput: 54.29 Mbit/s
95th percentile per-packet one-way delay: 97.786 ms
Loss rate: 10.65%
```

Run 4: Report of TCP BBR — Data Link



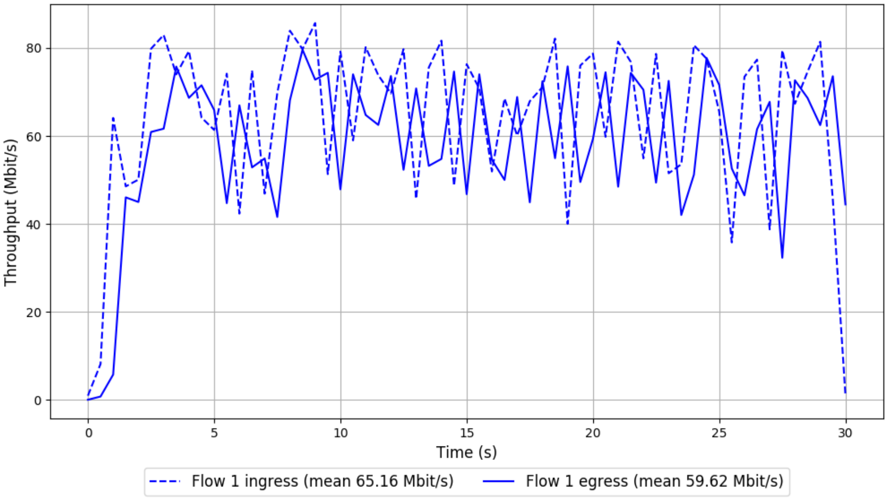


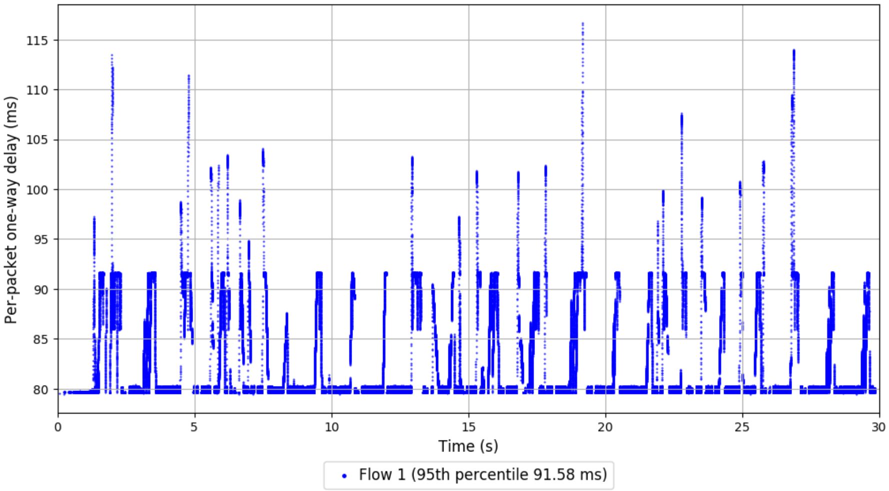
```
Run 5: Statistics of TCP BBR

Start at: 2018-06-19 03:02:42
End at: 2018-06-19 03:03:12
Local clock offset: -8.009 ms
Remote clock offset: 3.749 ms

# Below is generated by plot.py at 2018-06-19 04:50:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.62 Mbit/s
95th percentile per-packet one-way delay: 91.582 ms
Loss rate: 9.25%
-- Flow 1:
Average throughput: 59.62 Mbit/s
95th percentile per-packet one-way delay: 91.582 ms
Loss rate: 9.25%
```

Run 5: Report of TCP BBR — Data Link



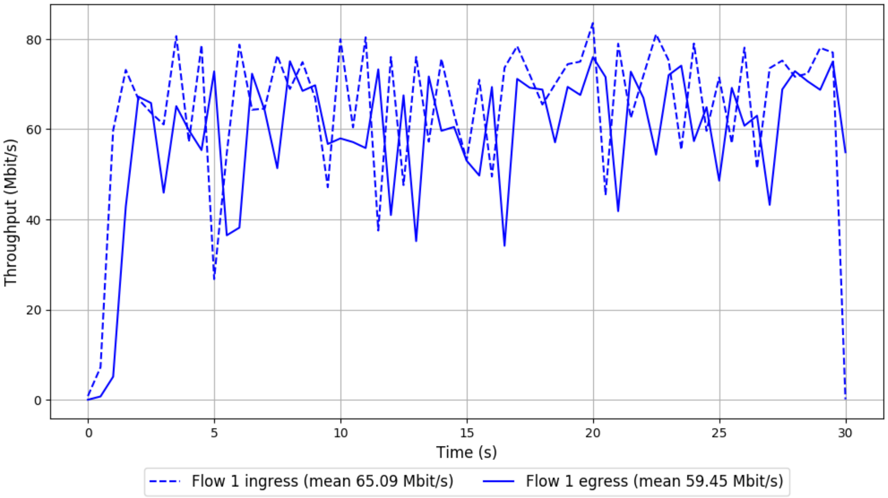


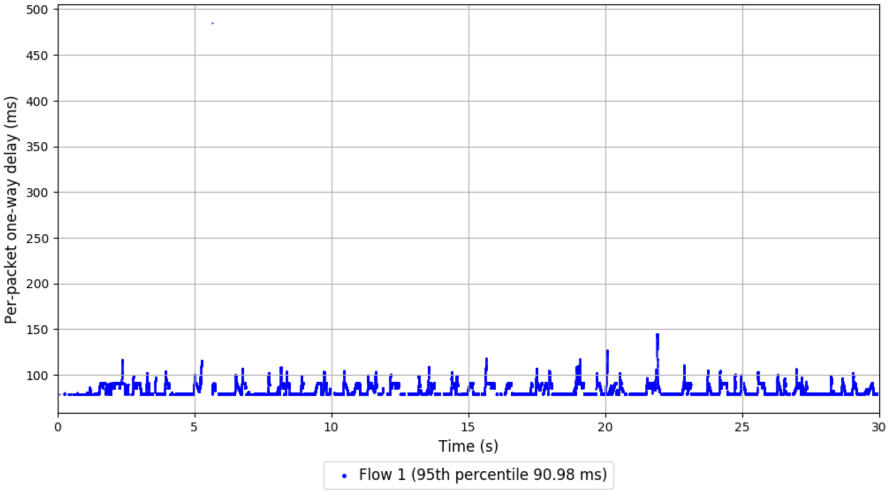
```
Run 6: Statistics of TCP BBR

Start at: 2018-06-19 03:21:23
End at: 2018-06-19 03:21:53
Local clock offset: -7.567 ms
Remote clock offset: 10.126 ms

# Below is generated by plot.py at 2018-06-19 04:50:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.45 Mbit/s
95th percentile per-packet one-way delay: 90.976 ms
Loss rate: 9.14%
-- Flow 1:
Average throughput: 59.45 Mbit/s
95th percentile per-packet one-way delay: 90.976 ms
Loss rate: 9.14%
```

Run 6: Report of TCP BBR — Data Link



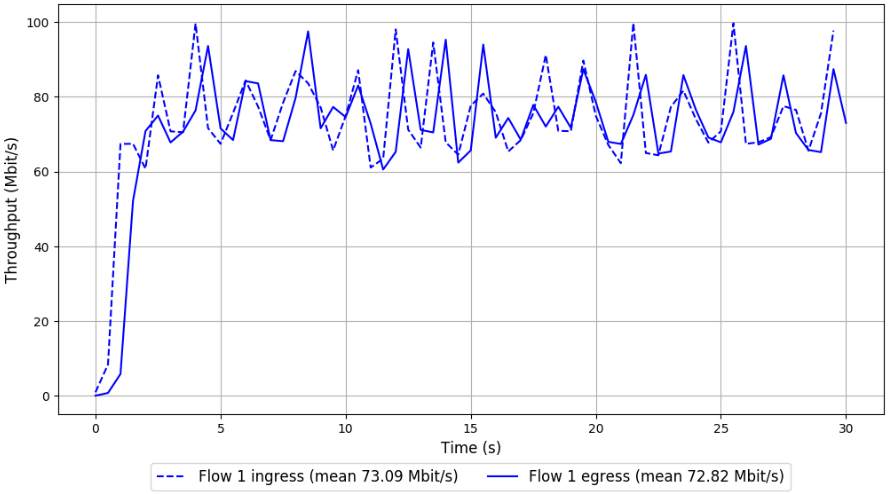


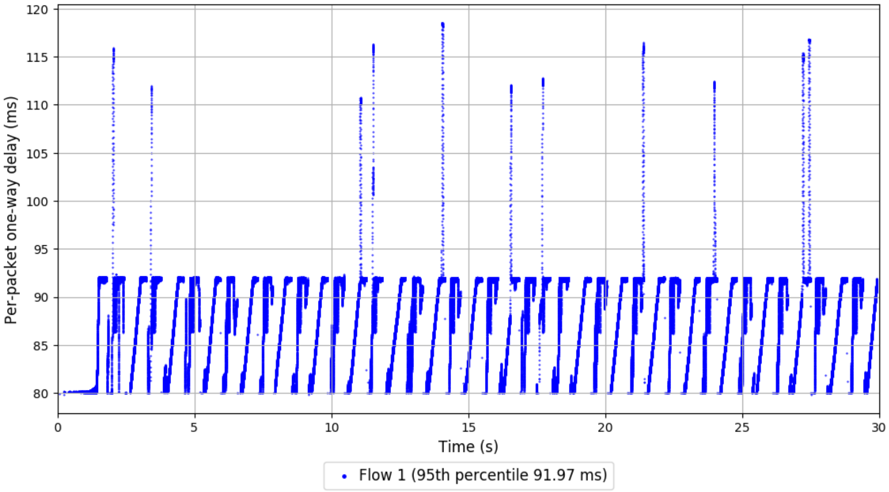
```
Run 7: Statistics of TCP BBR

Start at: 2018-06-19 03:40:08
End at: 2018-06-19 03:40:38
Local clock offset: -4.924 ms
Remote clock offset: 14.077 ms

# Below is generated by plot.py at 2018-06-19 04:50:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.82 Mbit/s
95th percentile per-packet one-way delay: 91.973 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 72.82 Mbit/s
95th percentile per-packet one-way delay: 91.973 ms
Loss rate: 0.88%
```

Run 7: Report of TCP BBR — Data Link



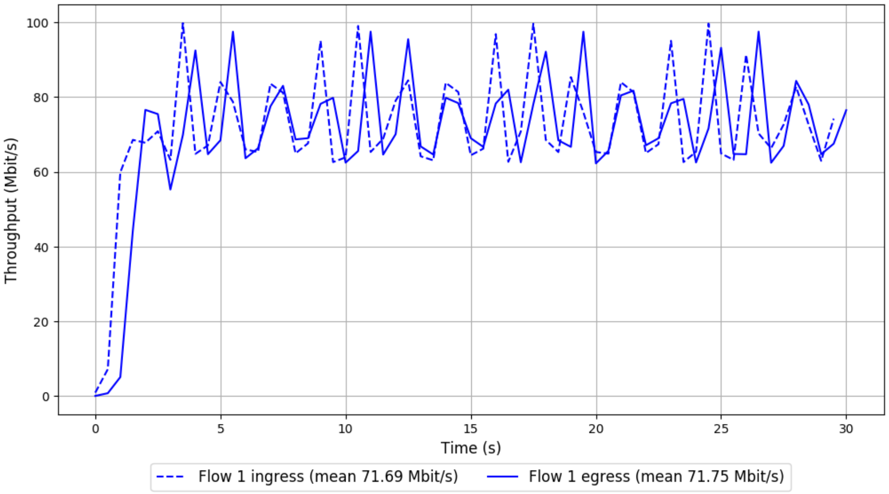


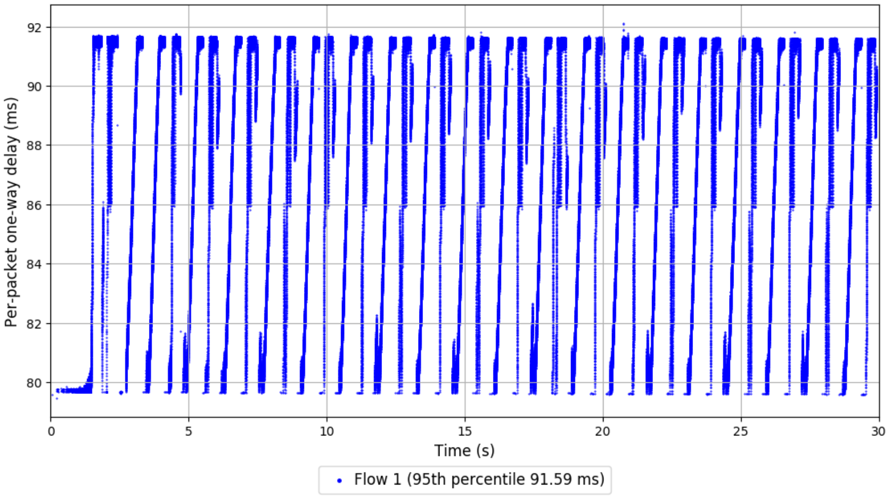
```
Run 8: Statistics of TCP BBR

Start at: 2018-06-19 03:58:46
End at: 2018-06-19 03:59:16
Local clock offset: -2.05 ms
Remote clock offset: 11.488 ms

# Below is generated by plot.py at 2018-06-19 04:50:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.75 Mbit/s
95th percentile per-packet one-way delay: 91.589 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 71.75 Mbit/s
95th percentile per-packet one-way delay: 91.589 ms
Loss rate: 0.40%
```

Run 8: Report of TCP BBR — Data Link



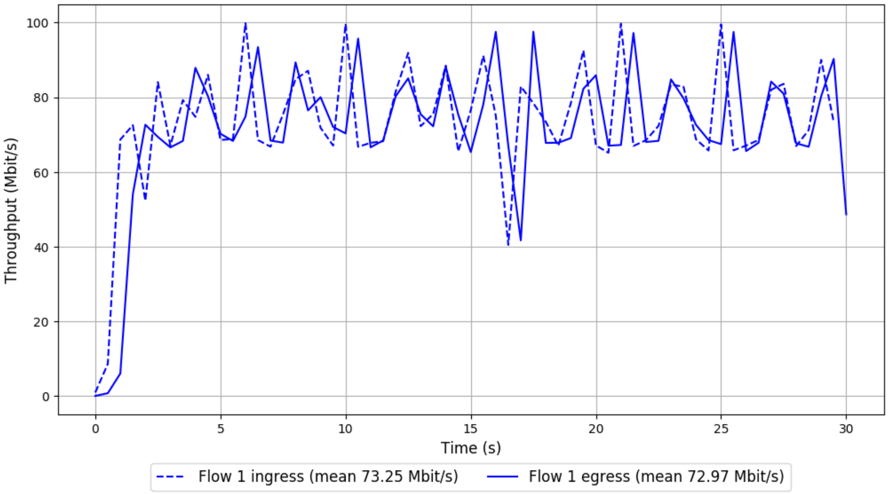


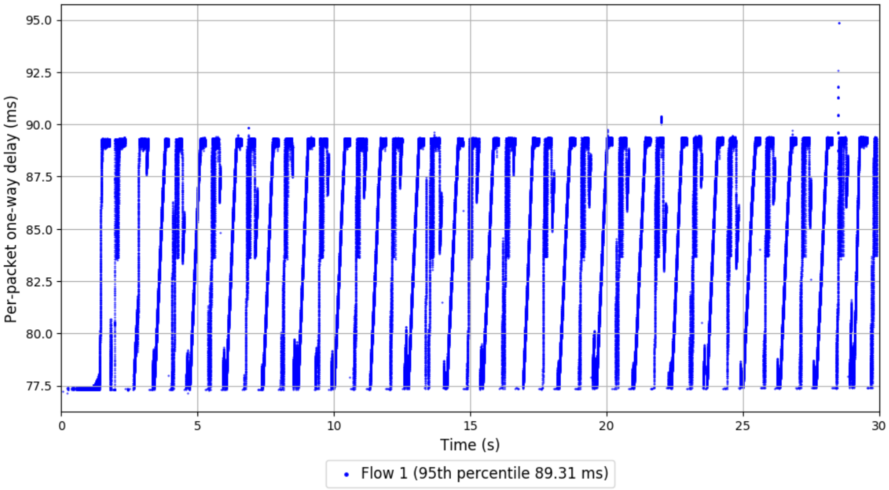
```
Run 9: Statistics of TCP BBR

Start at: 2018-06-19 04:17:24
End at: 2018-06-19 04:17:54
Local clock offset: -6.035 ms
Remote clock offset: 11.238 ms

# Below is generated by plot.py at 2018-06-19 04:50:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.97 Mbit/s
95th percentile per-packet one-way delay: 89.305 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 72.97 Mbit/s
95th percentile per-packet one-way delay: 89.305 ms
Loss rate: 0.91%
```

Run 9: Report of TCP BBR — Data Link



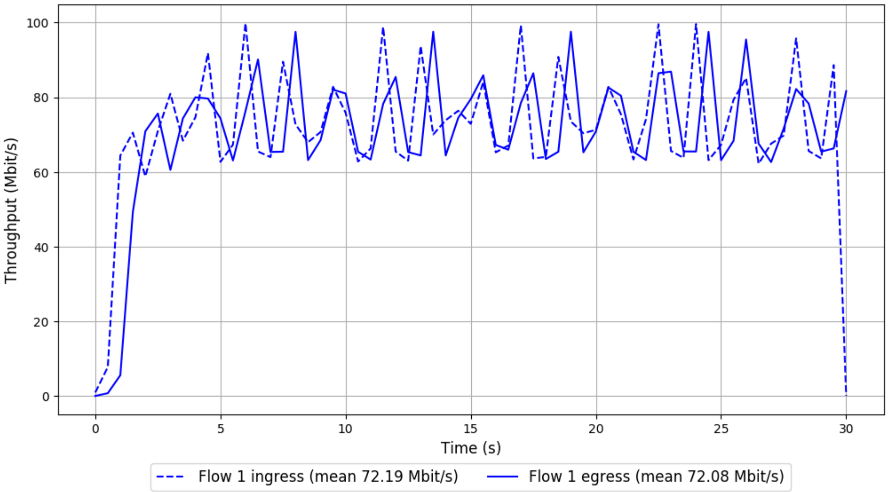


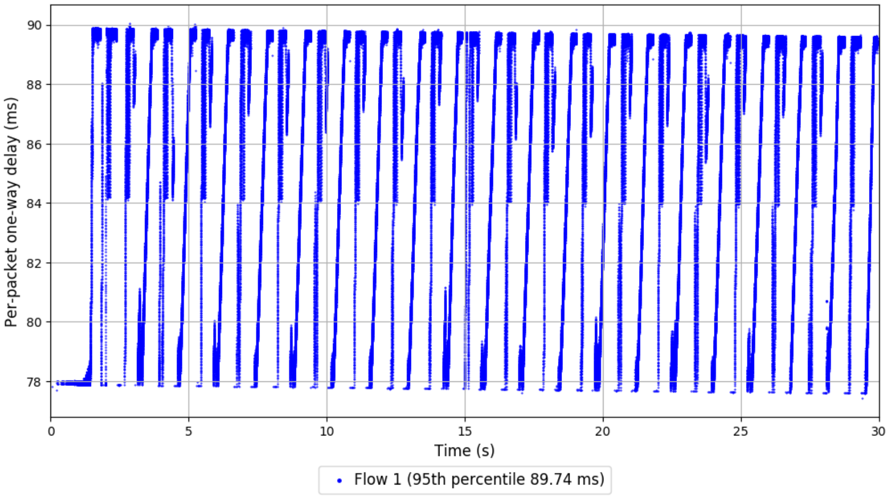
```
Run 10: Statistics of TCP BBR

Start at: 2018-06-19 04:36:04
End at: 2018-06-19 04:36:34
Local clock offset: -6.394 ms
Remote clock offset: 5.715 ms

# Below is generated by plot.py at 2018-06-19 04:50:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.08 Mbit/s
95th percentile per-packet one-way delay: 89.737 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 72.08 Mbit/s
95th percentile per-packet one-way delay: 89.737 ms
Loss rate: 0.67%
```

Run 10: Report of TCP BBR — Data Link



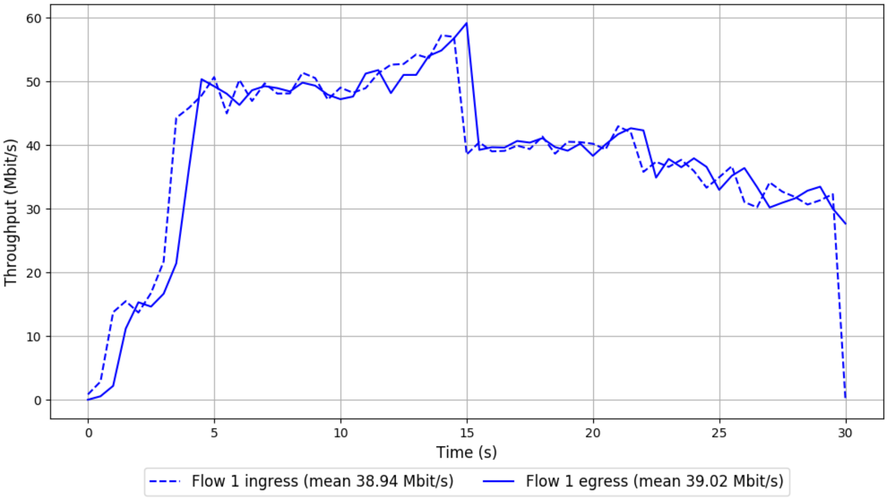


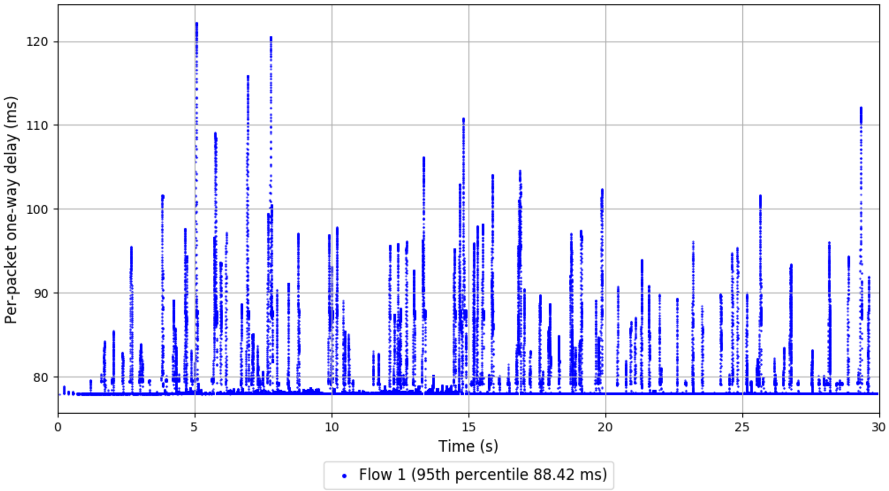
```
Run 1: Statistics of Copa

Start at: 2018-06-19 01:46:16
End at: 2018-06-19 01:46:46
Local clock offset: -2.263 ms
Remote clock offset: 10.846 ms

# Below is generated by plot.py at 2018-06-19 04:50:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 39.02 Mbit/s
95th percentile per-packet one-way delay: 88.415 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 39.02 Mbit/s
95th percentile per-packet one-way delay: 88.415 ms
Loss rate: 0.41%
```

Run 1: Report of Copa — Data Link



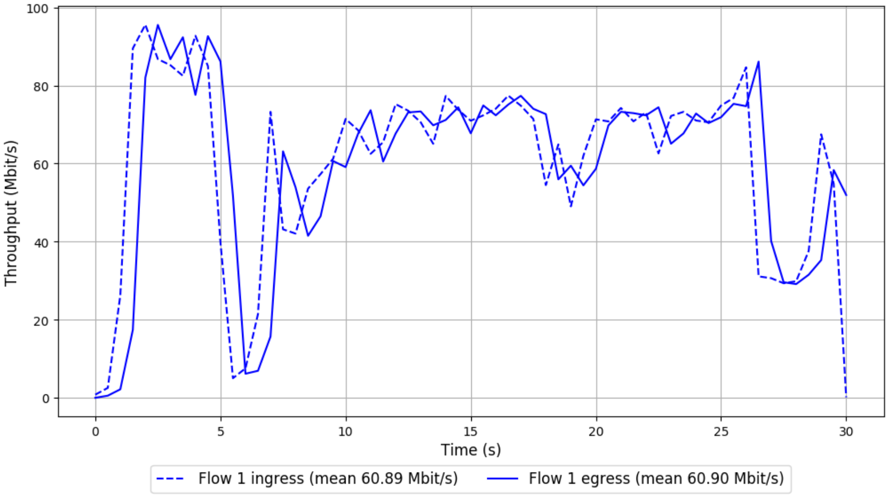


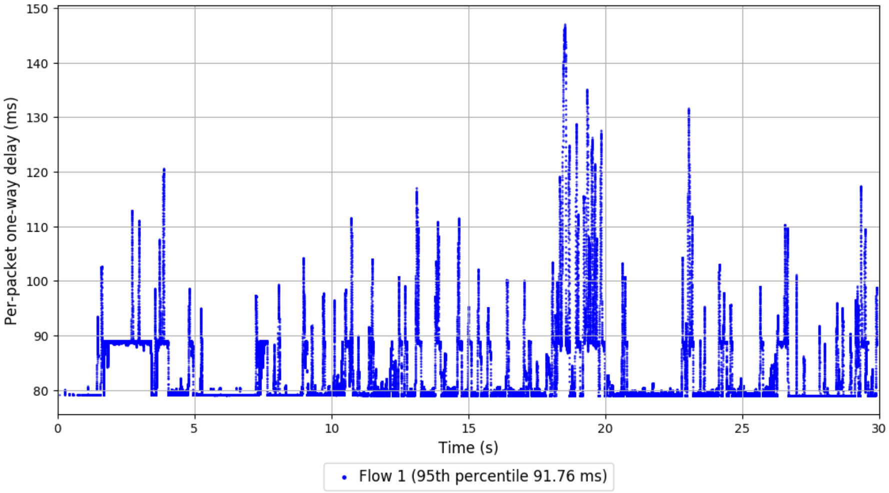
```
Run 2: Statistics of Copa

Start at: 2018-06-19 02:04:41
End at: 2018-06-19 02:05:11
Local clock offset: -2.259 ms
Remote clock offset: 13.731 ms

# Below is generated by plot.py at 2018-06-19 04:51:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 60.90 Mbit/s
95th percentile per-packet one-way delay: 91.758 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 60.90 Mbit/s
95th percentile per-packet one-way delay: 91.758 ms
Loss rate: 0.50%
```

Run 2: Report of Copa — Data Link



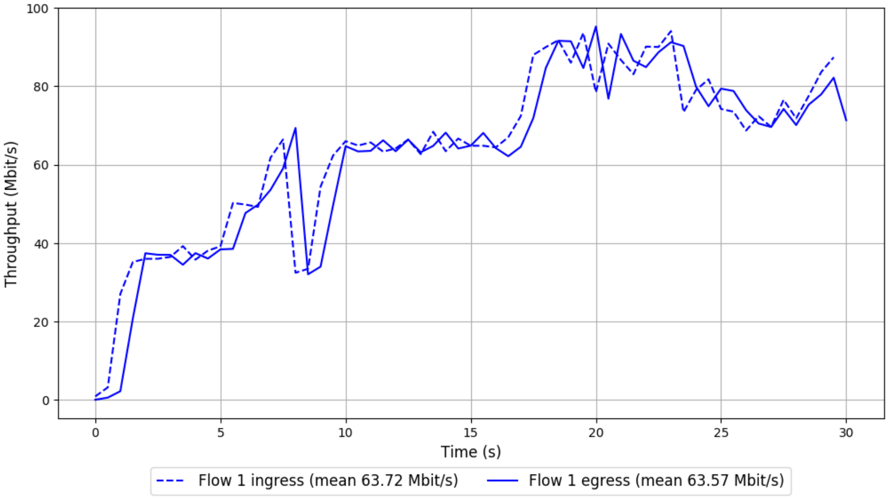


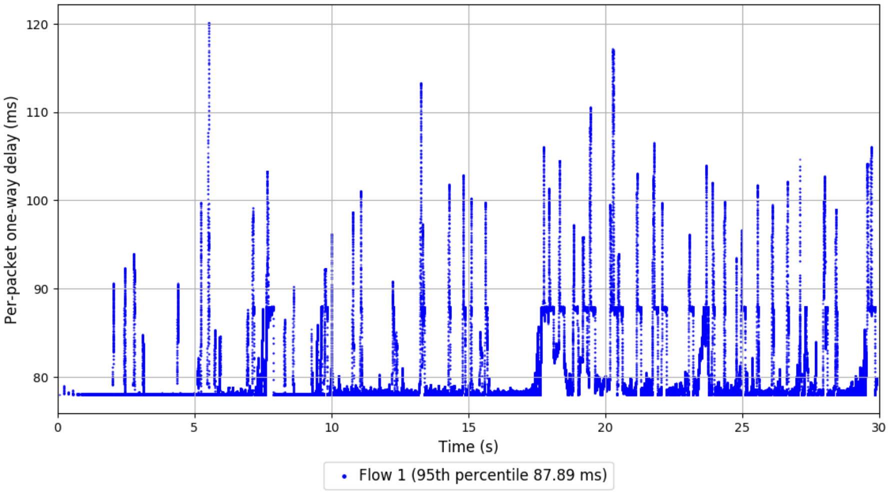
```
Run 3: Statistics of Copa

Start at: 2018-06-19 02:23:07
End at: 2018-06-19 02:23:37
Local clock offset: -1.836 ms
Remote clock offset: 11.264 ms

# Below is generated by plot.py at 2018-06-19 04:51:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.57 Mbit/s
95th percentile per-packet one-way delay: 87.890 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 63.57 Mbit/s
95th percentile per-packet one-way delay: 87.890 ms
Loss rate: 0.74%
```

Run 3: Report of Copa — Data Link



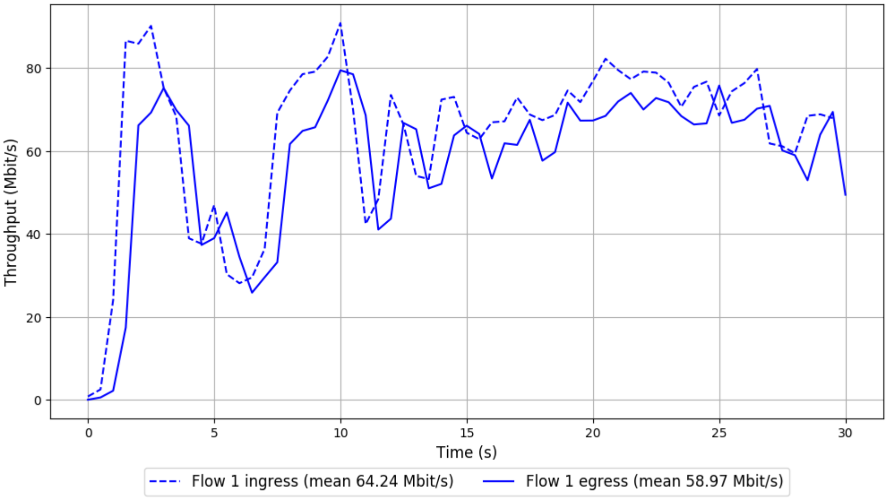


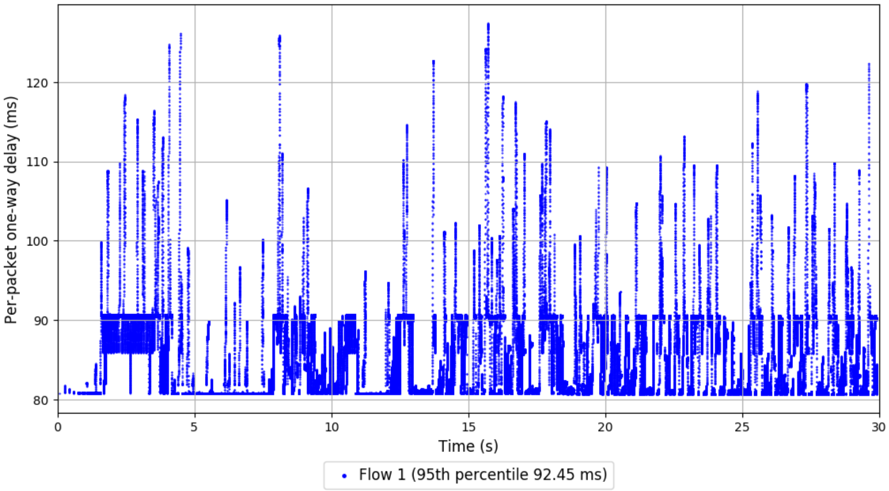
```
Run 4: Statistics of Copa

Start at: 2018-06-19 02:41:40
End at: 2018-06-19 02:42:10
Local clock offset: -4.98 ms
Remote clock offset: 8.477 ms

# Below is generated by plot.py at 2018-06-19 04:51:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.97 Mbit/s
95th percentile per-packet one-way delay: 92.447 ms
Loss rate: 8.68%
-- Flow 1:
Average throughput: 58.97 Mbit/s
95th percentile per-packet one-way delay: 92.447 ms
Loss rate: 8.68%
```

Run 4: Report of Copa — Data Link



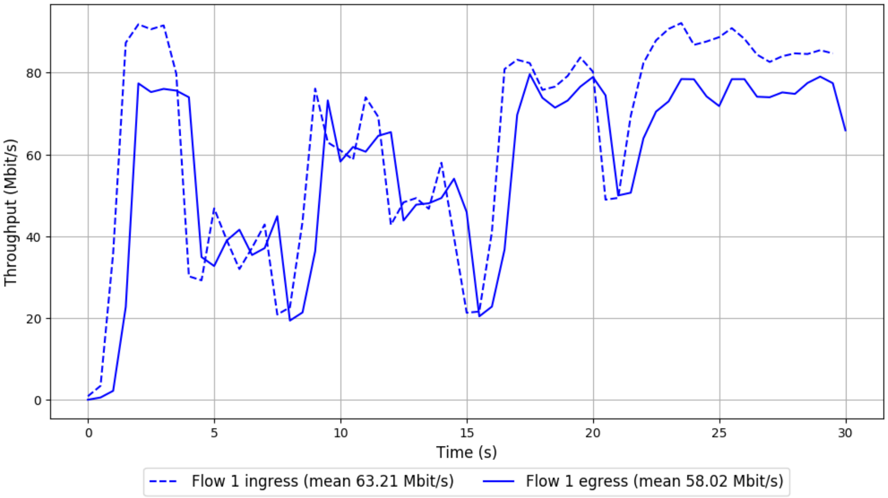


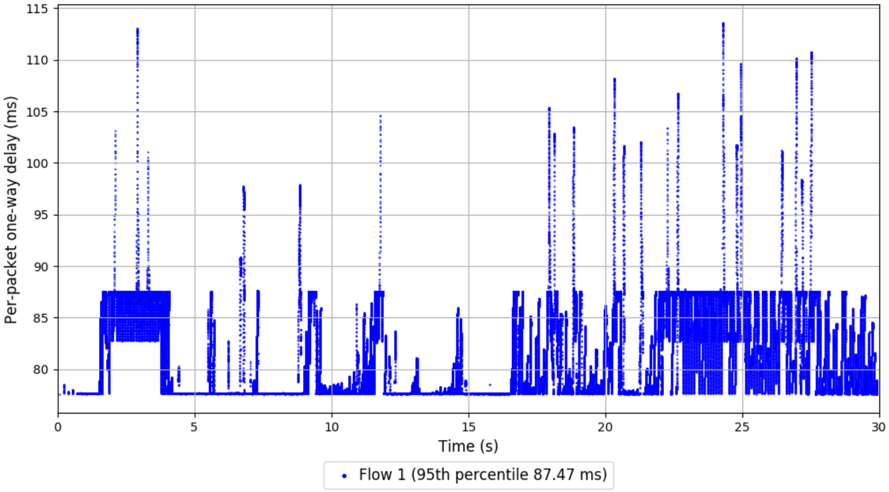
```
Run 5: Statistics of Copa

Start at: 2018-06-19 03:00:23
End at: 2018-06-19 03:00:53
Local clock offset: -7.731 ms
Remote clock offset: 4.003 ms

# Below is generated by plot.py at 2018-06-19 04:51:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.02 Mbit/s
95th percentile per-packet one-way delay: 87.472 ms
Loss rate: 8.68%
-- Flow 1:
Average throughput: 58.02 Mbit/s
95th percentile per-packet one-way delay: 87.472 ms
Loss rate: 8.68%
```

Run 5: Report of Copa — Data Link



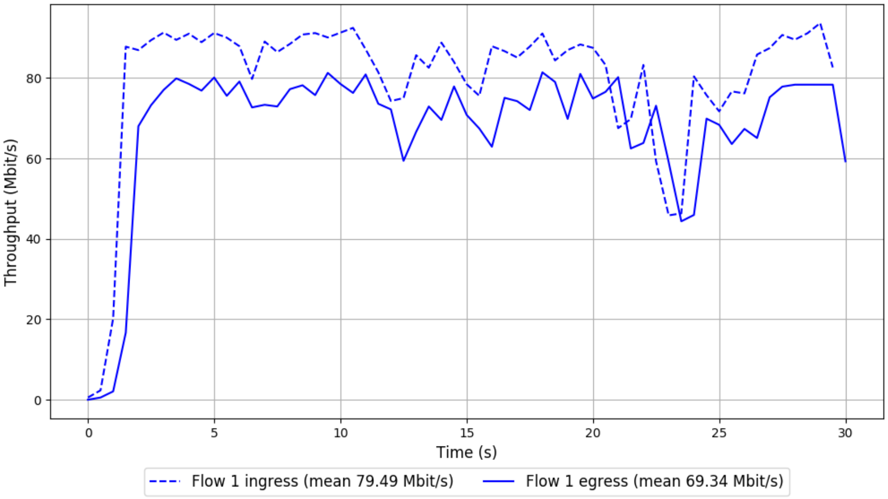


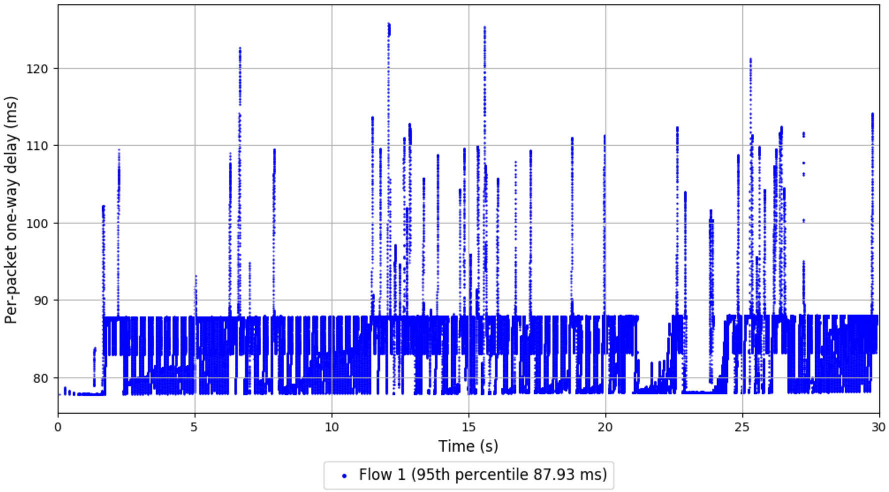
```
Run 6: Statistics of Copa

Start at: 2018-06-19 03:19:03
End at: 2018-06-19 03:19:33
Local clock offset: -7.449 ms
Remote clock offset: 7.783 ms

# Below is generated by plot.py at 2018-06-19 04:51:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.34 Mbit/s
95th percentile per-packet one-way delay: 87.926 ms
Loss rate: 13.22%
-- Flow 1:
Average throughput: 69.34 Mbit/s
95th percentile per-packet one-way delay: 87.926 ms
Loss rate: 13.22%
```

Run 6: Report of Copa — Data Link



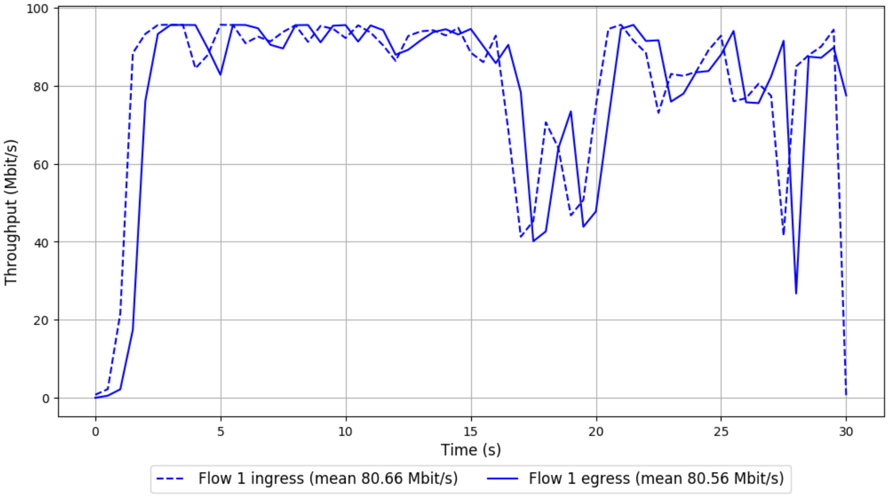


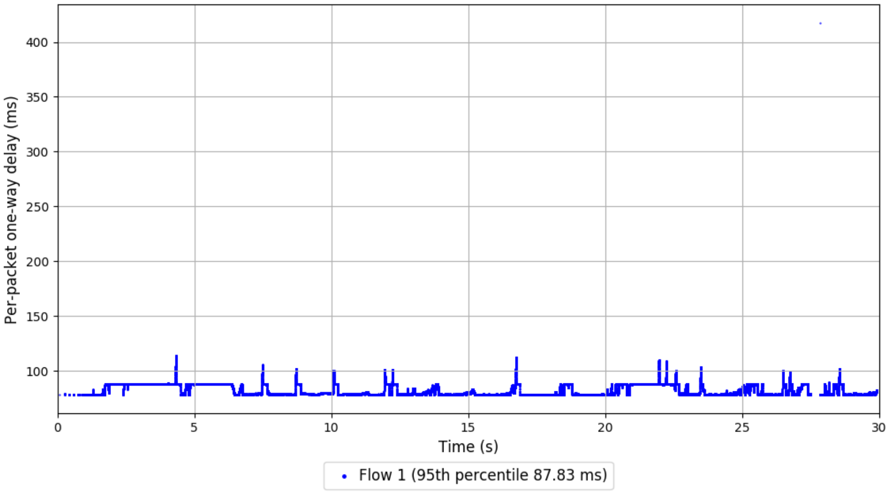
```
Run 7: Statistics of Copa

Start at: 2018-06-19 03:37:48
End at: 2018-06-19 03:38:18
Local clock offset: -5.845 ms
Remote clock offset: 12.594 ms

# Below is generated by plot.py at 2018-06-19 04:52:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 87.832 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 80.56 Mbit/s
95th percentile per-packet one-way delay: 87.832 ms
Loss rate: 0.64%
```

Run 7: Report of Copa — Data Link



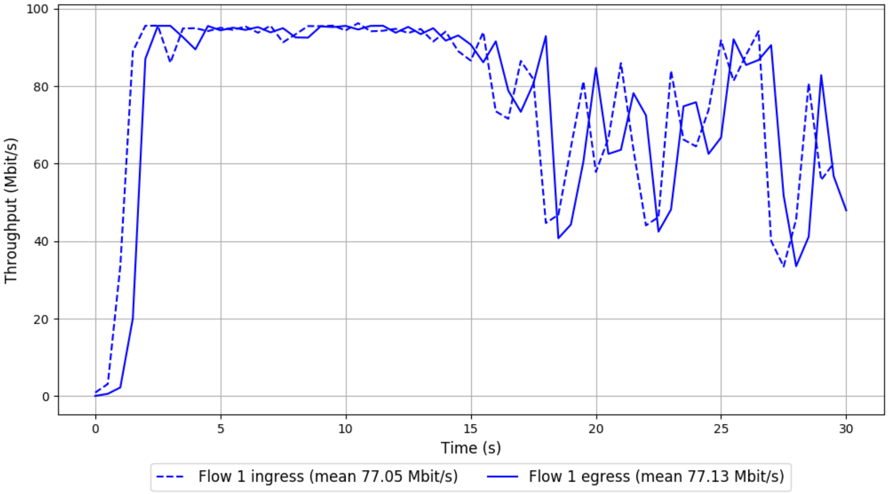


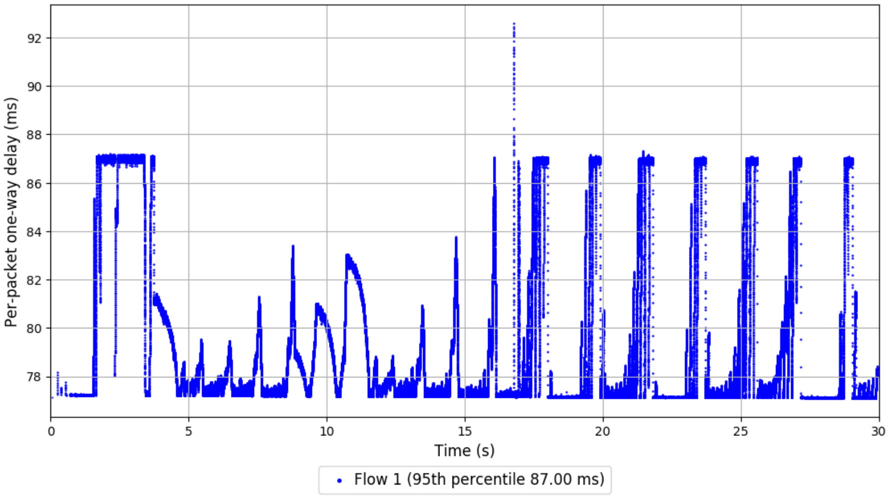
```
Run 8: Statistics of Copa

Start at: 2018-06-19 03:56:26
End at: 2018-06-19 03:56:56
Local clock offset: -2.212 ms
Remote clock offset: 11.815 ms

# Below is generated by plot.py at 2018-06-19 04:52:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.13 Mbit/s
95th percentile per-packet one-way delay: 86.995 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 77.13 Mbit/s
95th percentile per-packet one-way delay: 86.995 ms
Loss rate: 0.40%
```

Run 8: Report of Copa — Data Link



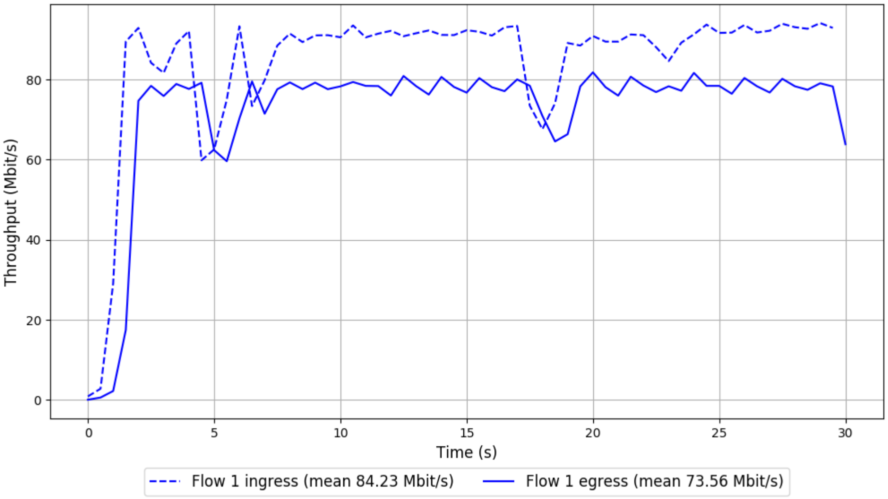


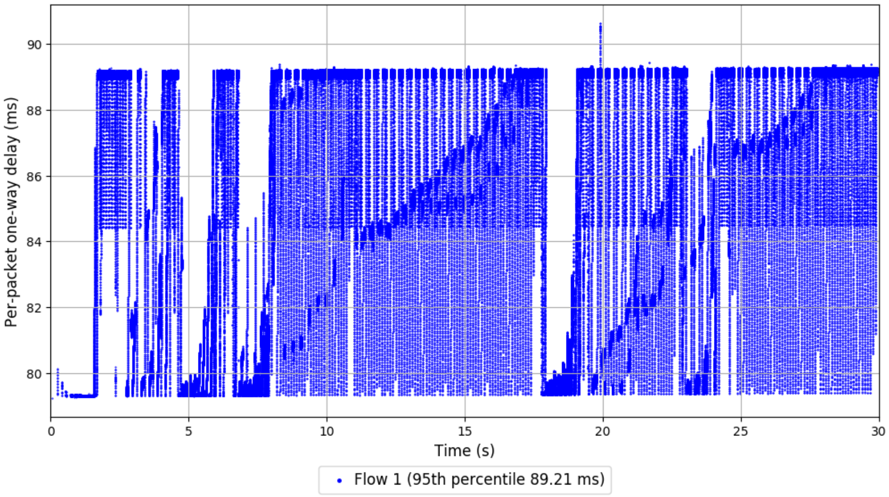
```
Run 9: Statistics of Copa

Start at: 2018-06-19 04:15:04
End at: 2018-06-19 04:15:34
Local clock offset: -5.655 ms
Remote clock offset: 11.22 ms

# Below is generated by plot.py at 2018-06-19 04:52:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.56 Mbit/s
95th percentile per-packet one-way delay: 89.213 ms
Loss rate: 13.13%
-- Flow 1:
Average throughput: 73.56 Mbit/s
95th percentile per-packet one-way delay: 89.213 ms
Loss rate: 13.13%
```

Run 9: Report of Copa — Data Link



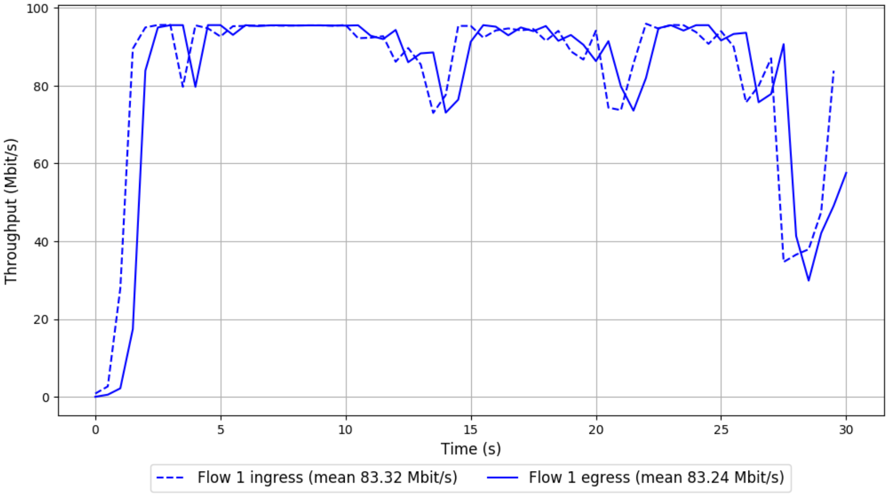


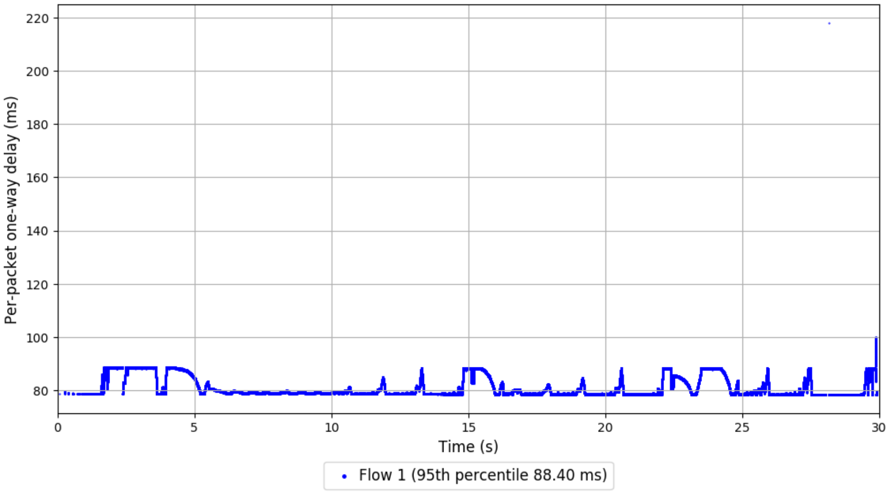
```
Run 10: Statistics of Copa

Start at: 2018-06-19 04:33:44
End at: 2018-06-19 04:34:14
Local clock offset: -7.474 ms
Remote clock offset: 5.045 ms

# Below is generated by plot.py at 2018-06-19 04:53:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.24 Mbit/s
95th percentile per-packet one-way delay: 88.404 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 83.24 Mbit/s
95th percentile per-packet one-way delay: 88.404 ms
Loss rate: 0.61%
```

Run 10: Report of Copa — Data Link



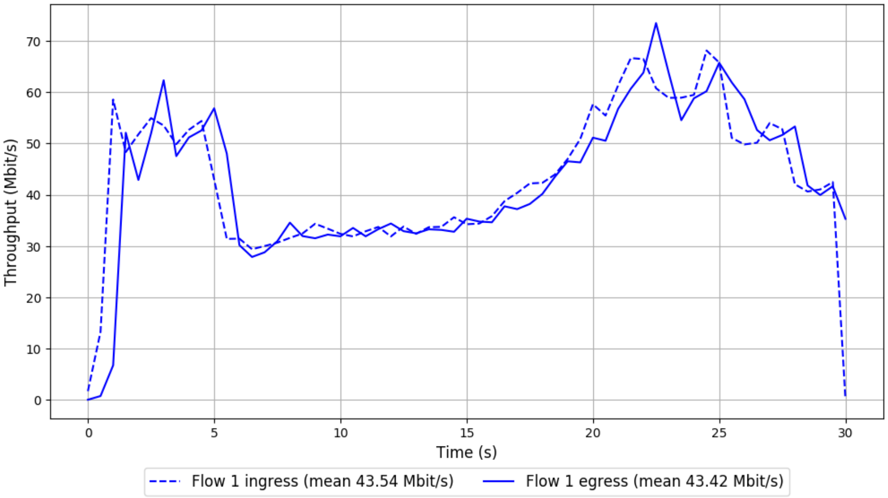


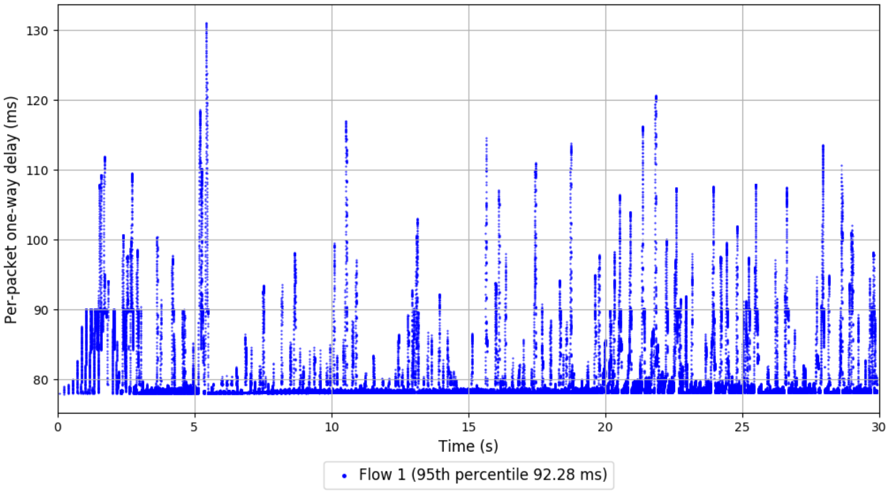
```
Run 1: Statistics of TCP Cubic

Start at: 2018-06-19 01:42:47
End at: 2018-06-19 01:43:17
Local clock offset: -2.279 ms
Remote clock offset: 10.306 ms

# Below is generated by plot.py at 2018-06-19 04:53:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.42 Mbit/s
95th percentile per-packet one-way delay: 92.280 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 43.42 Mbit/s
95th percentile per-packet one-way delay: 92.280 ms
Loss rate: 0.78%
```

Run 1: Report of TCP Cubic — Data Link



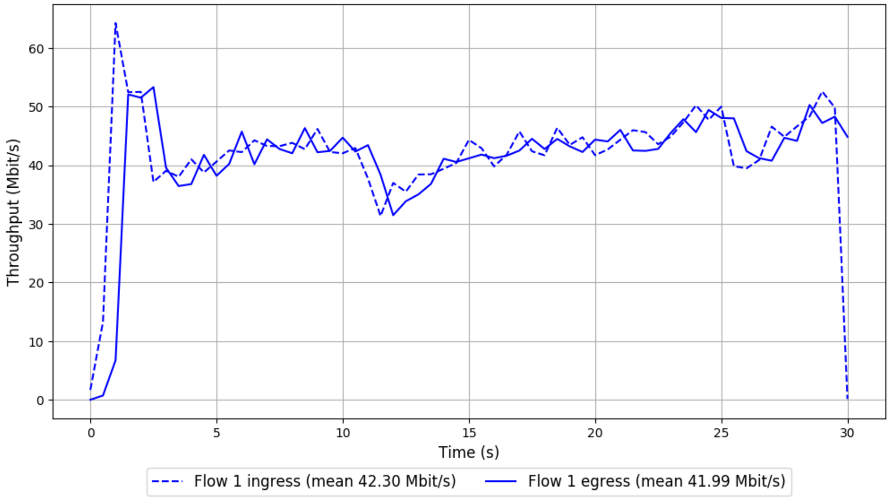


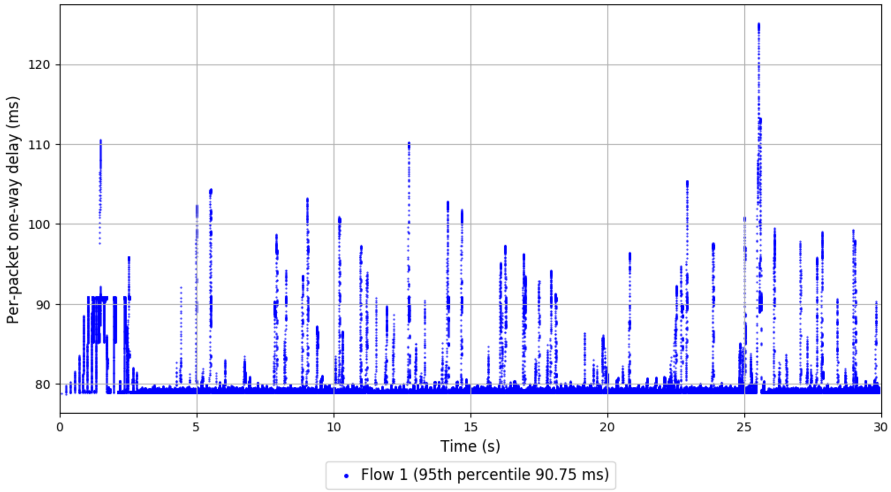
```
Run 2: Statistics of TCP Cubic

Start at: 2018-06-19 02:01:12
End at: 2018-06-19 02:01:42
Local clock offset: -2.295 ms
Remote clock offset: 11.353 ms

# Below is generated by plot.py at 2018-06-19 04:53:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.99 Mbit/s
95th percentile per-packet one-way delay: 90.755 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 41.99 Mbit/s
95th percentile per-packet one-way delay: 90.755 ms
Loss rate: 1.25%
```

Run 2: Report of TCP Cubic — Data Link



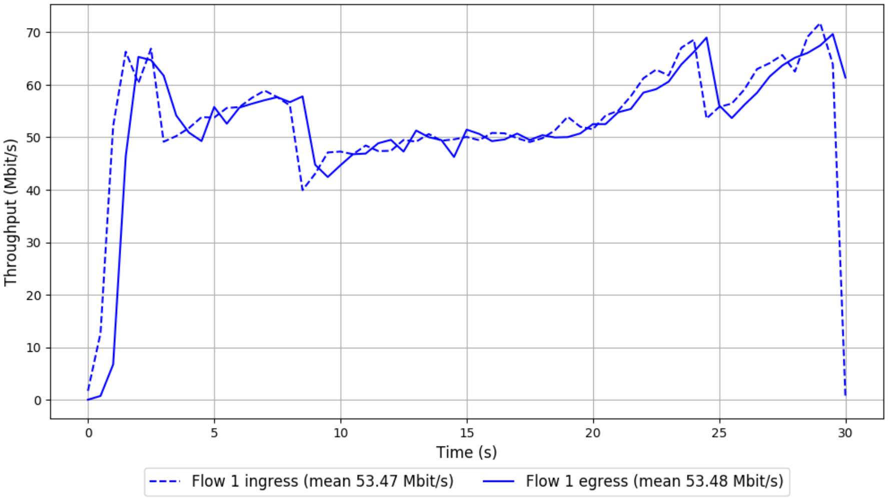


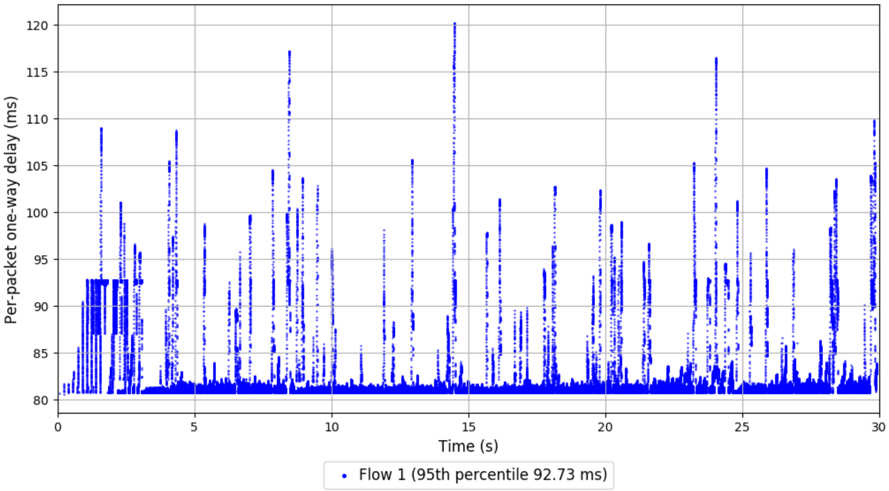
```
Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 02:19:37
End at: 2018-06-19 02:20:07
Local clock offset: -1.892 ms
Remote clock offset: 10.247 ms

# Below is generated by plot.py at 2018-06-19 04:53:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 53.48 Mbit/s
95th percentile per-packet one-way delay: 92.732 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 53.48 Mbit/s
95th percentile per-packet one-way delay: 92.732 ms
Loss rate: 0.51%
```

Run 3: Report of TCP Cubic — Data Link



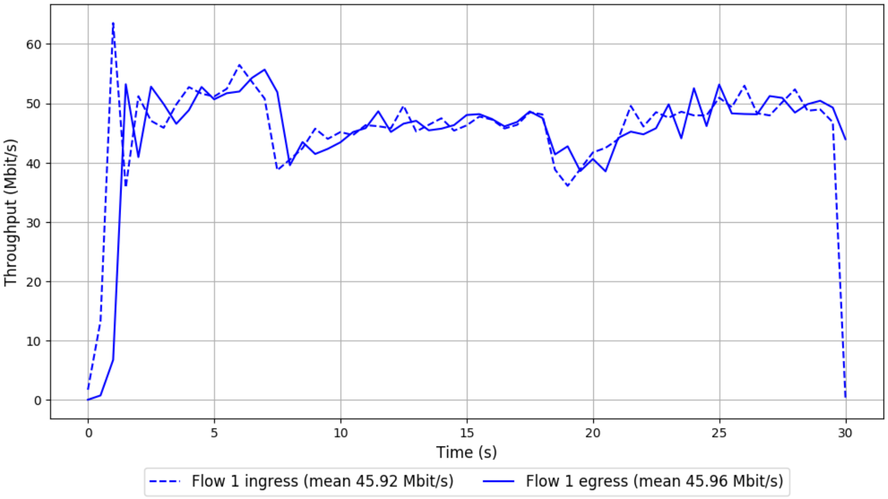


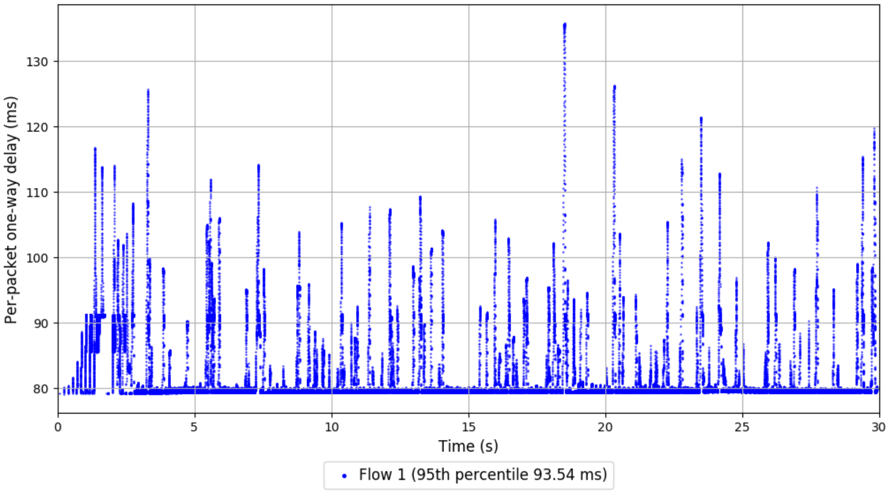
```
Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 02:38:11
End at: 2018-06-19 02:38:41
Local clock offset: -3.815 ms
Remote clock offset: 10.731 ms

# Below is generated by plot.py at 2018-06-19 04:53:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.96 Mbit/s
95th percentile per-packet one-way delay: 93.544 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 45.96 Mbit/s
95th percentile per-packet one-way delay: 93.544 ms
Loss rate: 0.43%
```

Run 4: Report of TCP Cubic — Data Link



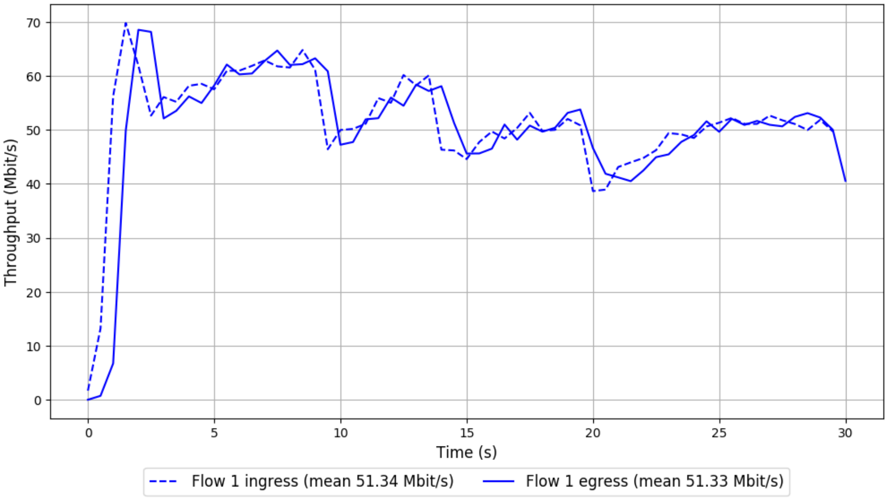


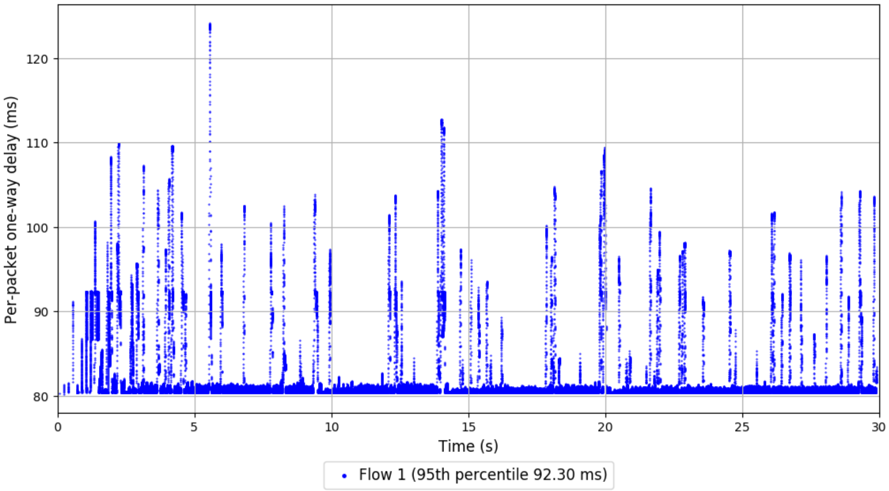
```
Run 5: Statistics of TCP Cubic

Start at: 2018-06-19 02:56:48
End at: 2018-06-19 02:57:18
Local clock offset: -7.406 ms
Remote clock offset: 3.514 ms

# Below is generated by plot.py at 2018-06-19 04:53:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 51.33 Mbit/s
95th percentile per-packet one-way delay: 92.300 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 51.33 Mbit/s
95th percentile per-packet one-way delay: 92.300 ms
Loss rate: 0.54%
```

Run 5: Report of TCP Cubic — Data Link



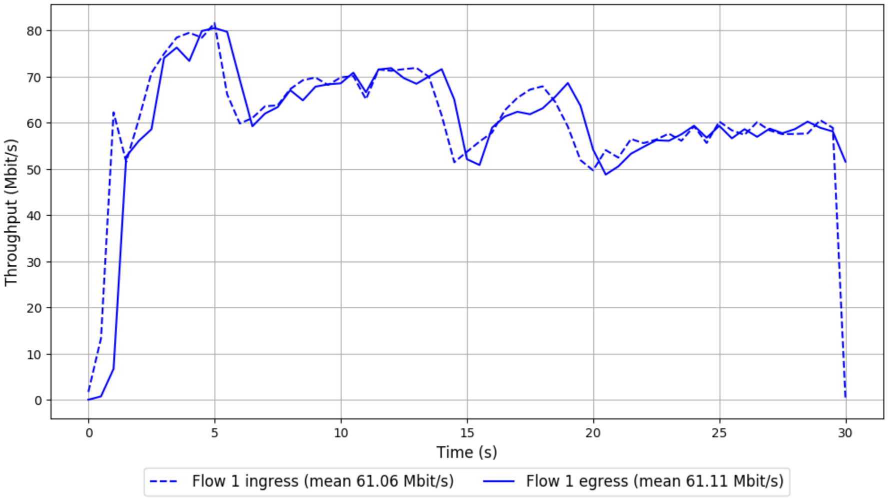


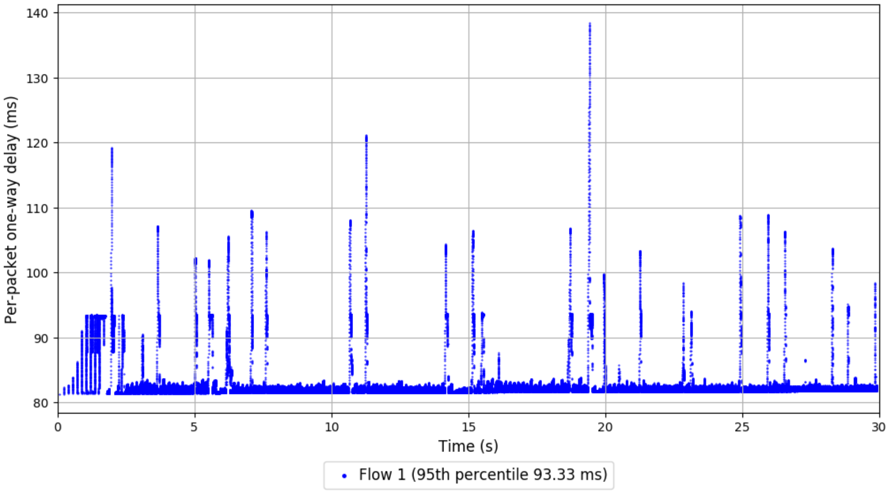
```
Run 6: Statistics of TCP Cubic

Start at: 2018-06-19 03:15:33
End at: 2018-06-19 03:16:03
Local clock offset: -7.448 ms
Remote clock offset: 4.188 ms

# Below is generated by plot.py at 2018-06-19 04:53:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.11 Mbit/s
95th percentile per-packet one-way delay: 93.329 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 61.11 Mbit/s
95th percentile per-packet one-way delay: 93.329 ms
Loss rate: 0.45%
```

Run 6: Report of TCP Cubic — Data Link



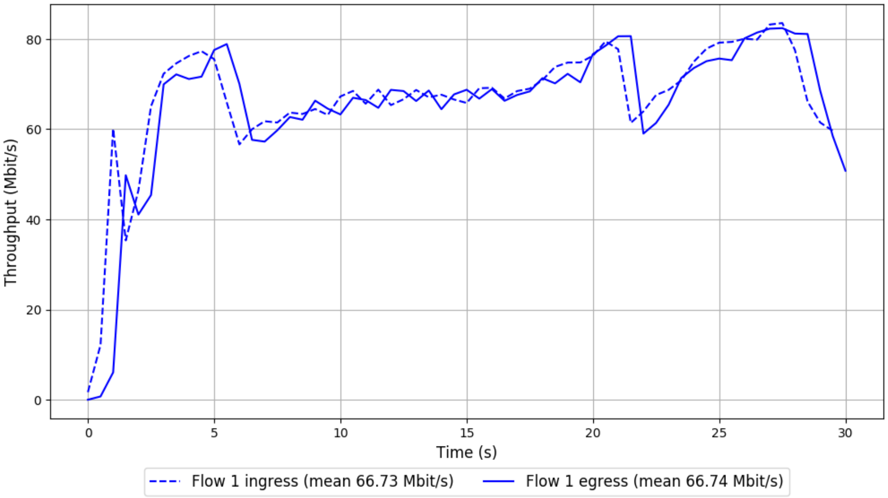


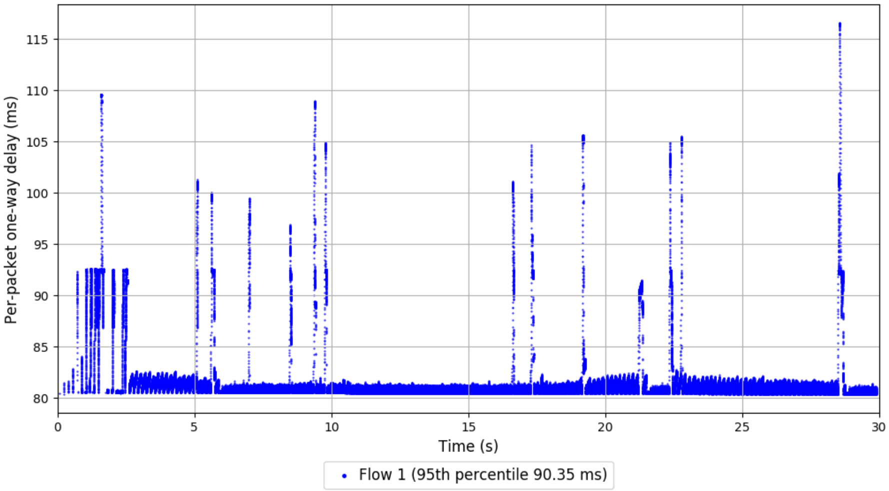
```
Run 7: Statistics of TCP Cubic

Start at: 2018-06-19 03:34:17
End at: 2018-06-19 03:34:47
Local clock offset: -7.712 ms
Remote clock offset: 11.853 ms

# Below is generated by plot.py at 2018-06-19 04:53:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.74 Mbit/s
95th percentile per-packet one-way delay: 90.352 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 66.74 Mbit/s
95th percentile per-packet one-way delay: 90.352 ms
Loss rate: 0.50%
```

Run 7: Report of TCP Cubic — Data Link



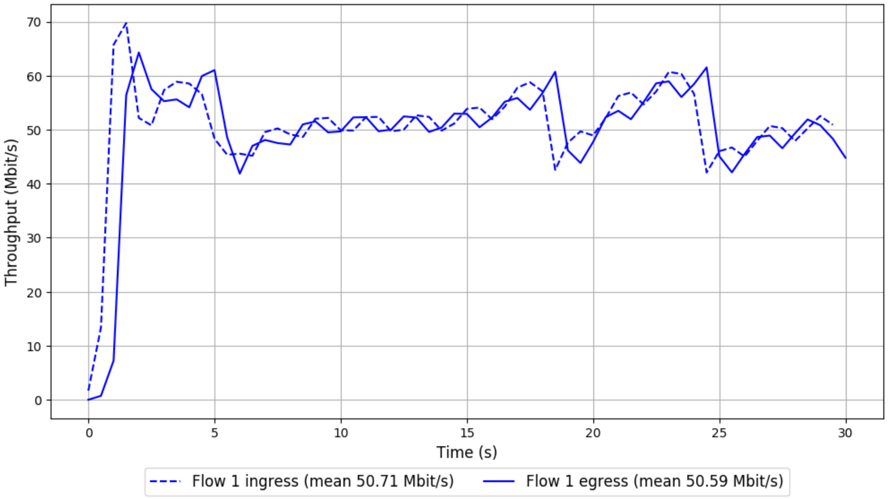


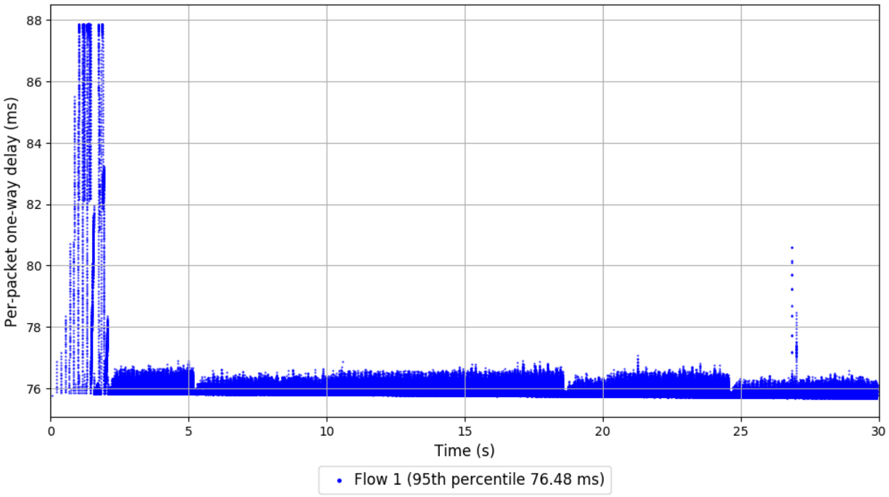
```
Run 8: Statistics of TCP Cubic

Start at: 2018-06-19 03:52:56
End at: 2018-06-19 03:53:26
Local clock offset: -2.463 ms
Remote clock offset: 13.785 ms

# Below is generated by plot.py at 2018-06-19 04:53:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 50.59 Mbit/s
95th percentile per-packet one-way delay: 76.485 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 50.59 Mbit/s
95th percentile per-packet one-way delay: 76.485 ms
Loss rate: 0.74%
```

Run 8: Report of TCP Cubic — Data Link



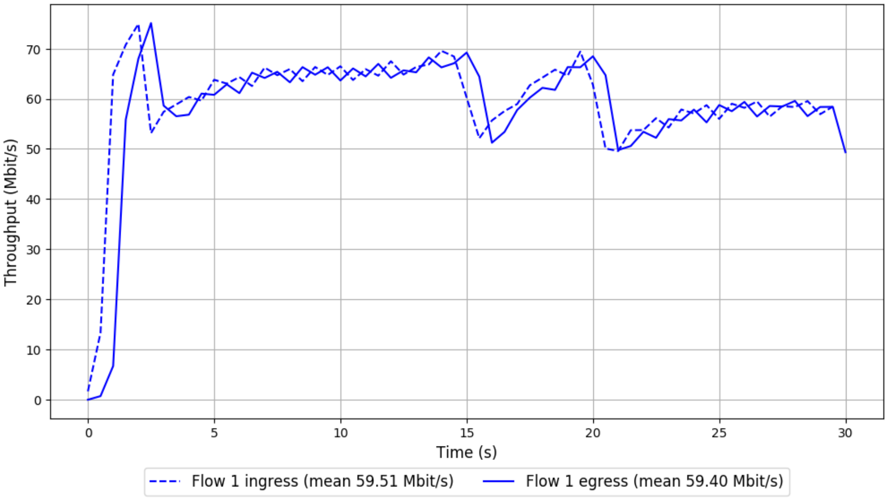


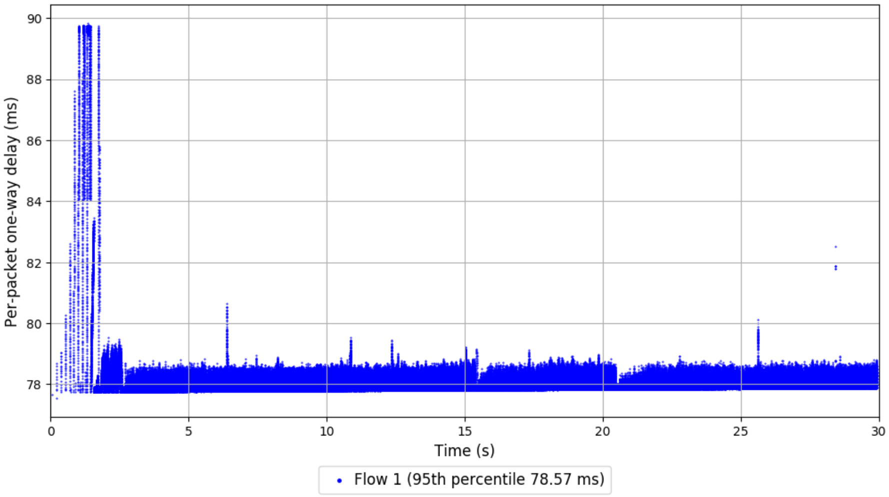
```
Run 9: Statistics of TCP Cubic

Start at: 2018-06-19 04:11:34
End at: 2018-06-19 04:12:04
Local clock offset: -4.83 ms
Remote clock offset: 11.068 ms

# Below is generated by plot.py at 2018-06-19 04:53:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.40 Mbit/s
95th percentile per-packet one-way delay: 78.571 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 59.40 Mbit/s
95th percentile per-packet one-way delay: 78.571 ms
Loss rate: 0.70%
```

Run 9: Report of TCP Cubic — Data Link



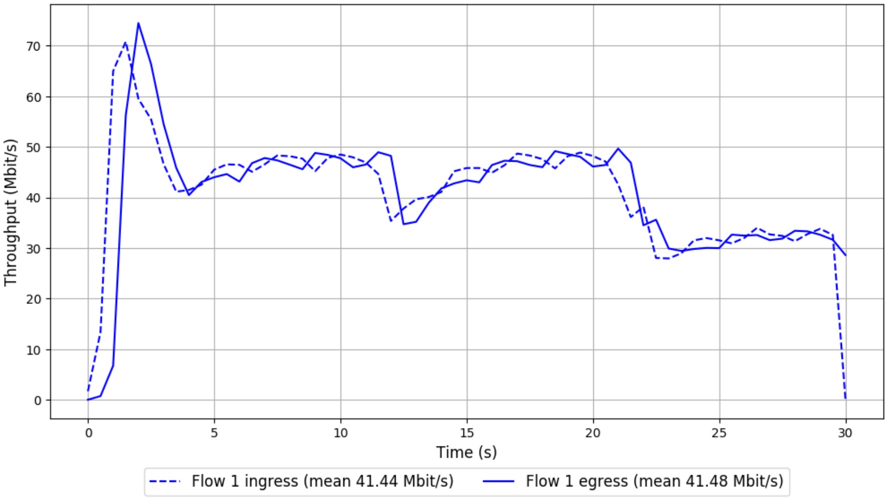


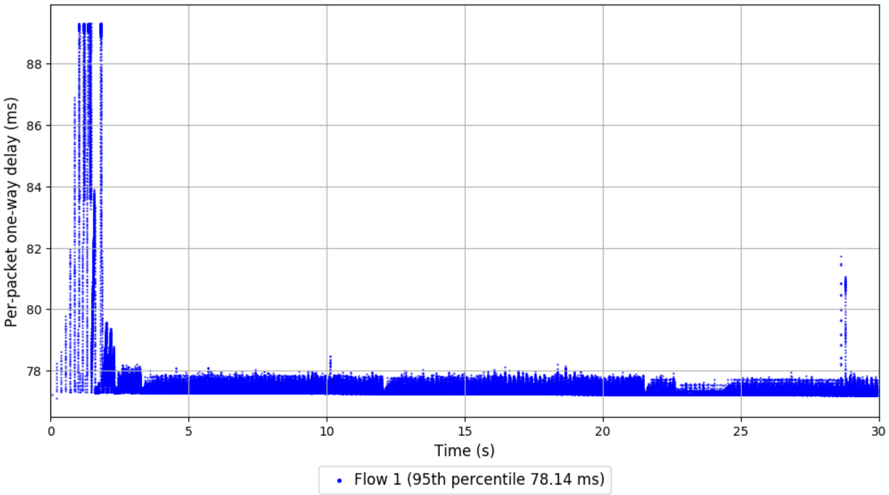
```
Run 10: Statistics of TCP Cubic

Start at: 2018-06-19 04:30:15
End at: 2018-06-19 04:30:45
Local clock offset: -7.259 ms
Remote clock offset: 7.143 ms

# Below is generated by plot.py at 2018-06-19 04:53:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.48 Mbit/s
95th percentile per-packet one-way delay: 78.140 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 41.48 Mbit/s
95th percentile per-packet one-way delay: 78.140 ms
Loss rate: 0.42%
```

Run 10: Report of TCP Cubic — Data Link



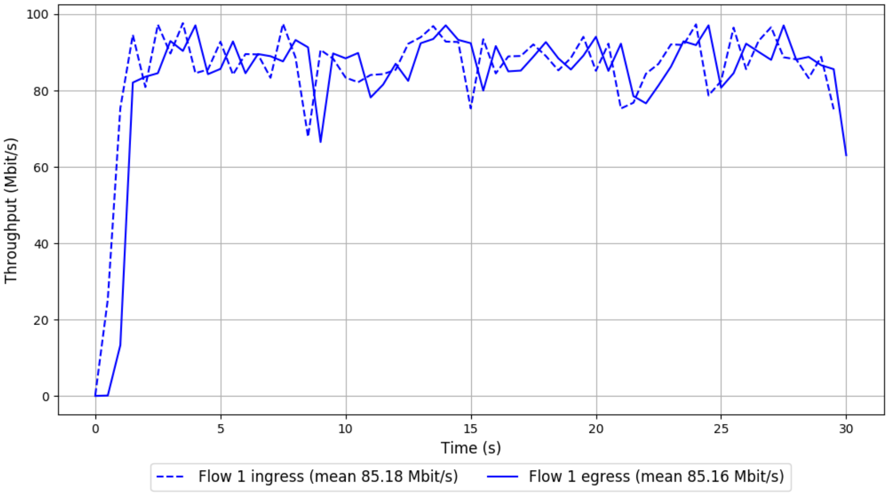


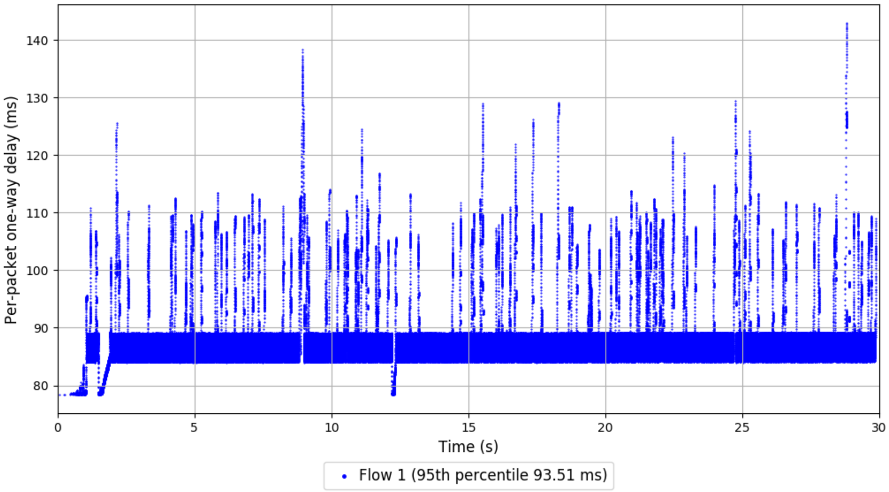
```
Run 1: Statistics of FillP

Start at: 2018-06-19 01:49:42
End at: 2018-06-19 01:50:12
Local clock offset: -2.278 ms
Remote clock offset: 12.349 ms

# Below is generated by plot.py at 2018-06-19 04:53:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.16 Mbit/s
95th percentile per-packet one-way delay: 93.509 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 85.16 Mbit/s
95th percentile per-packet one-way delay: 93.509 ms
Loss rate: 0.56%
```

Run 1: Report of FillP — Data Link



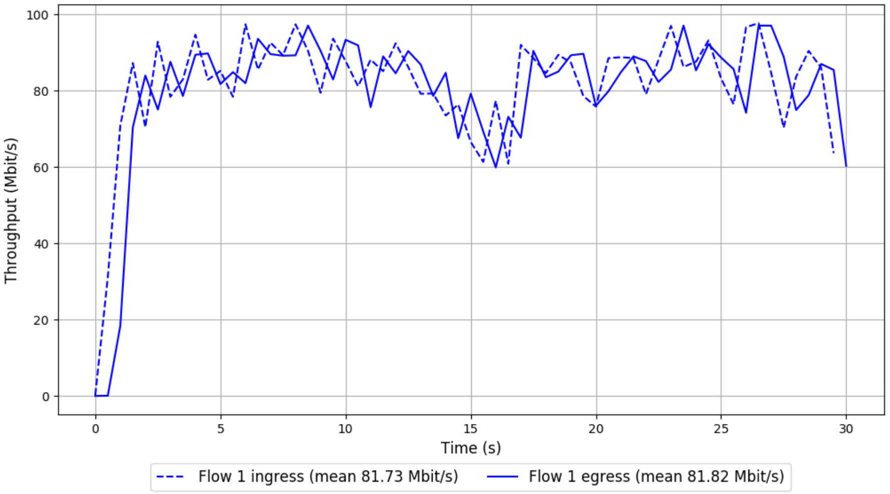


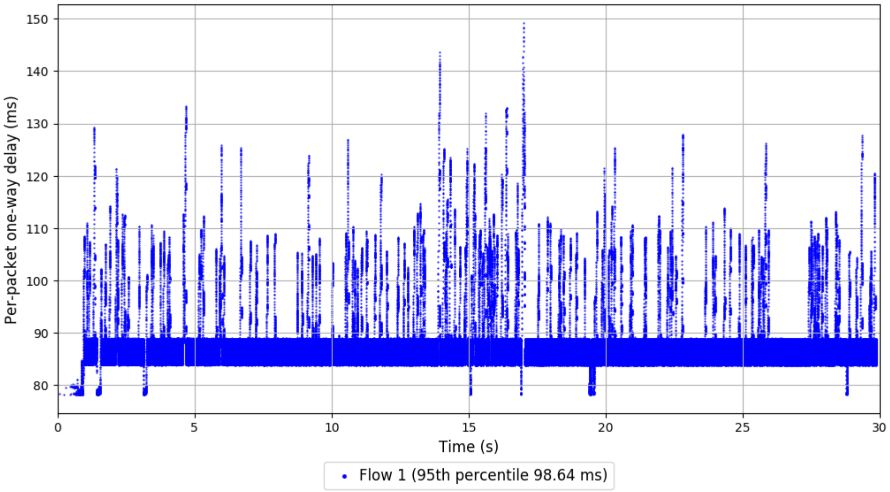
```
Run 2: Statistics of FillP

Start at: 2018-06-19 02:08:09
End at: 2018-06-19 02:08:39
Local clock offset: -2.192 ms
Remote clock offset: 11.036 ms

# Below is generated by plot.py at 2018-06-19 04:53:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.82 Mbit/s
95th percentile per-packet one-way delay: 98.645 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 81.82 Mbit/s
95th percentile per-packet one-way delay: 98.645 ms
Loss rate: 0.42%
```

Run 2: Report of FillP — Data Link



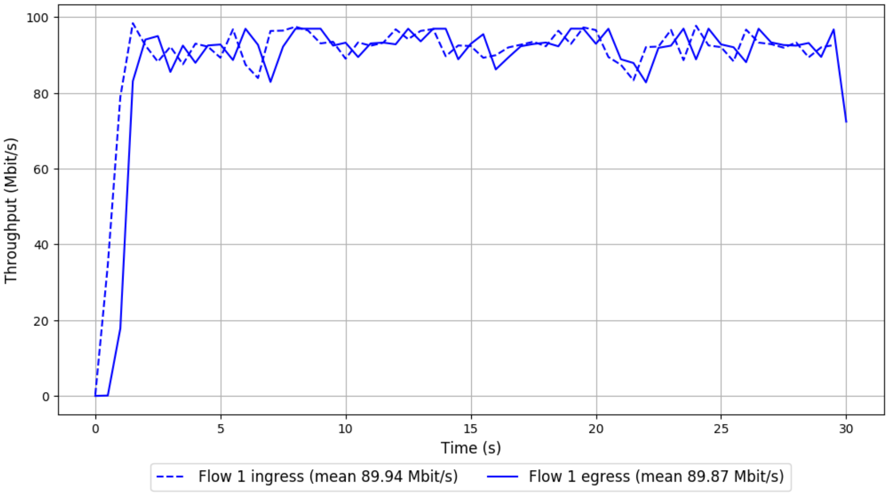


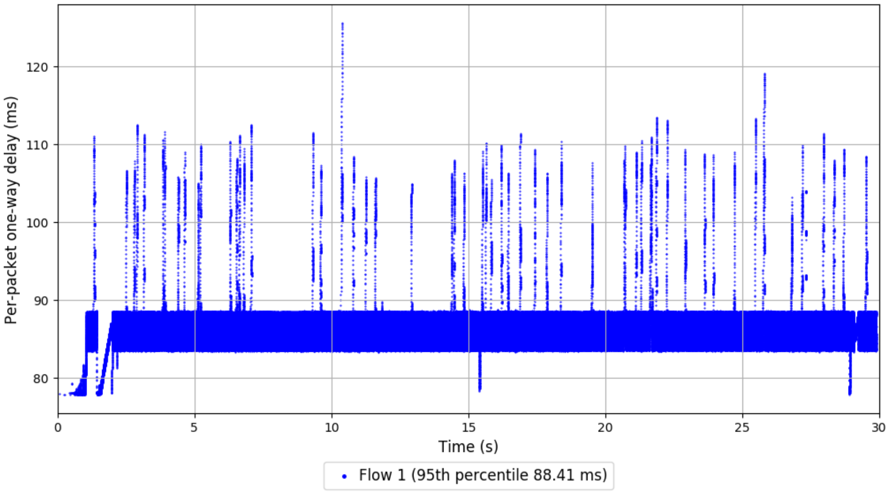
```
Run 3: Statistics of FillP

Start at: 2018-06-19 02:26:37
End at: 2018-06-19 02:27:08
Local clock offset: -1.877 ms
Remote clock offset: 11.298 ms

# Below is generated by plot.py at 2018-06-19 04:54:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 88.412 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 89.87 Mbit/s
95th percentile per-packet one-way delay: 88.412 ms
Loss rate: 0.60%
```

Run 3: Report of FillP — Data Link



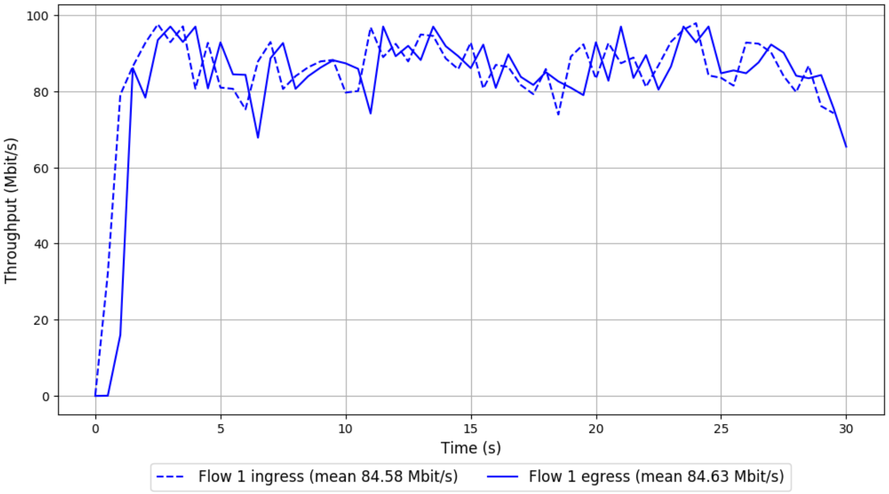


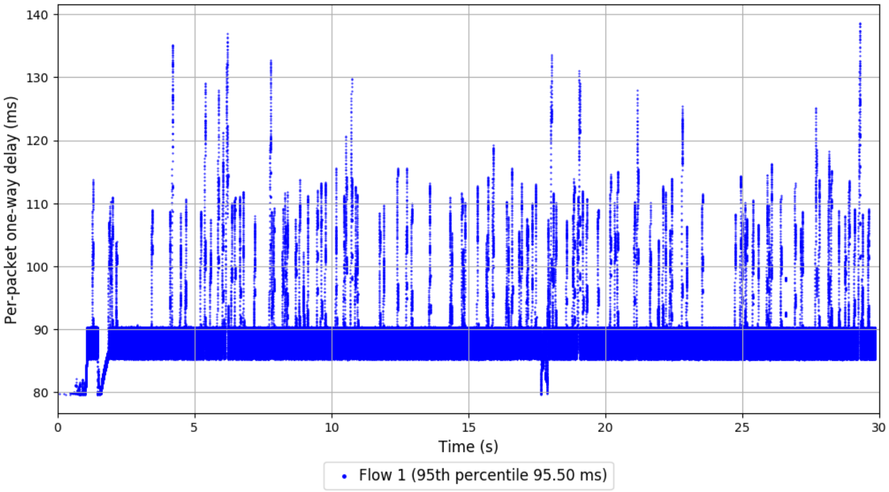
```
Run 4: Statistics of FillP

Start at: 2018-06-19 02:45:10
End at: 2018-06-19 02:45:40
Local clock offset: -5.828 ms
Remote clock offset: 7.637 ms

# Below is generated by plot.py at 2018-06-19 04:54:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 84.63 Mbit/s
95th percentile per-packet one-way delay: 95.502 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 84.63 Mbit/s
95th percentile per-packet one-way delay: 95.502 ms
Loss rate: 0.50%
```

Run 4: Report of FillP — Data Link



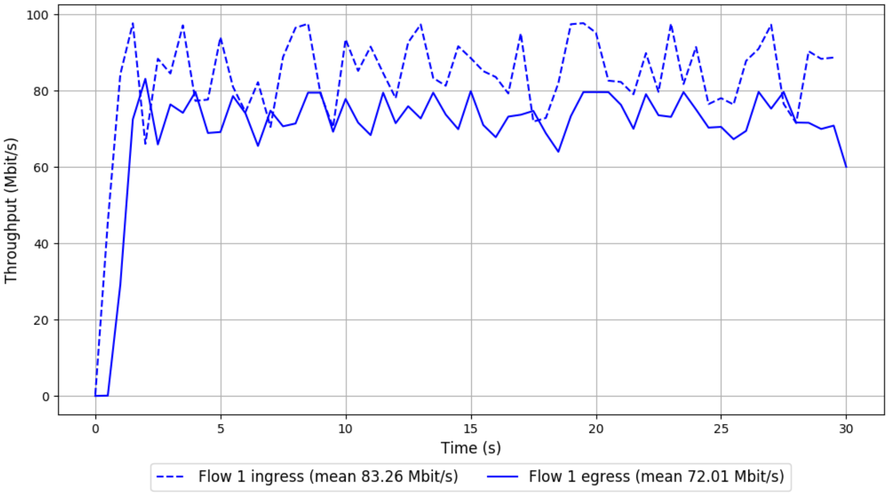


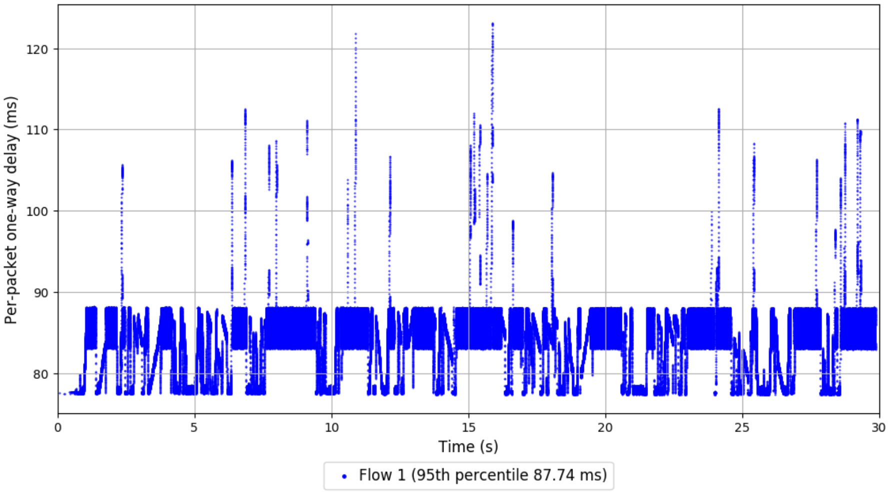
```
Run 5: Statistics of FillP

Start at: 2018-06-19 03:03:53
End at: 2018-06-19 03:04:23
Local clock offset: -8.079 ms
Remote clock offset: 3.665 ms

# Below is generated by plot.py at 2018-06-19 04:54:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 72.01 Mbit/s
95th percentile per-packet one-way delay: 87.740 ms
Loss rate: 13.96%
-- Flow 1:
Average throughput: 72.01 Mbit/s
95th percentile per-packet one-way delay: 87.740 ms
Loss rate: 13.96%
```

Run 5: Report of FillP — Data Link



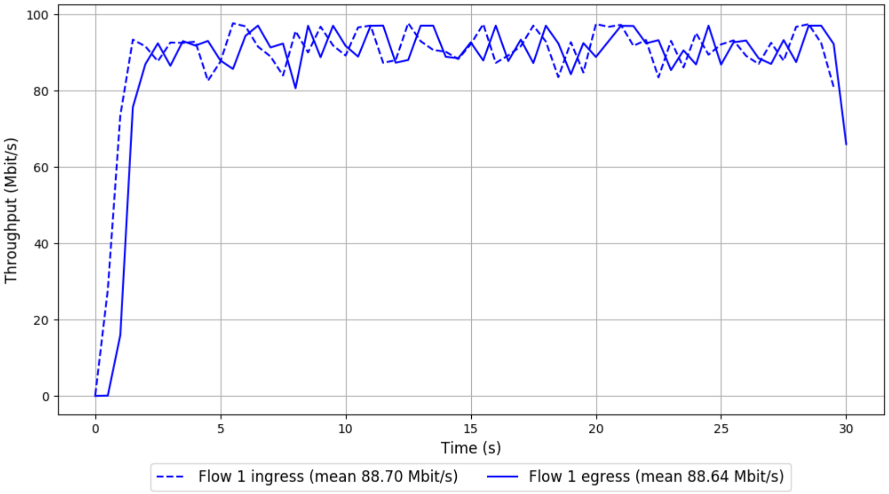


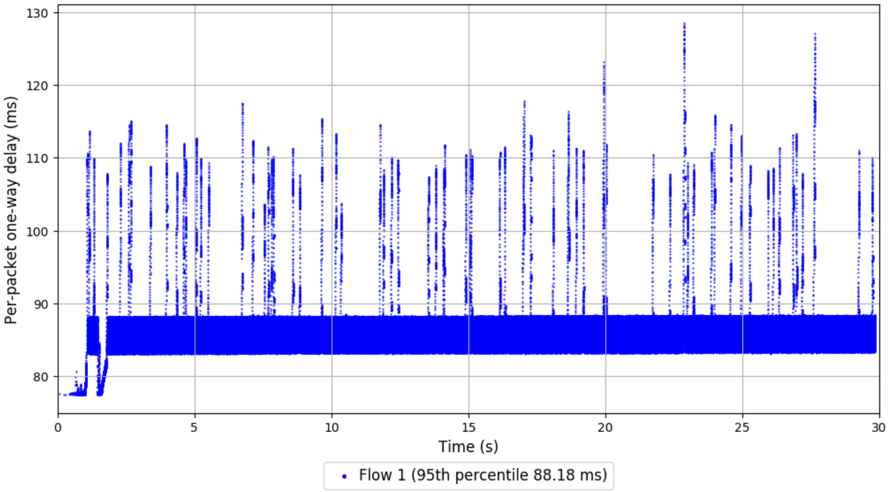
```
Run 6: Statistics of FillP

Start at: 2018-06-19 03:22:34
End at: 2018-06-19 03:23:04
Local clock offset: -7.516 ms
Remote clock offset: 9.589 ms

# Below is generated by plot.py at 2018-06-19 04:54:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.64 Mbit/s
95th percentile per-packet one-way delay: 88.183 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 88.64 Mbit/s
95th percentile per-packet one-way delay: 88.183 ms
Loss rate: 0.60%
```

Run 6: Report of FillP — Data Link



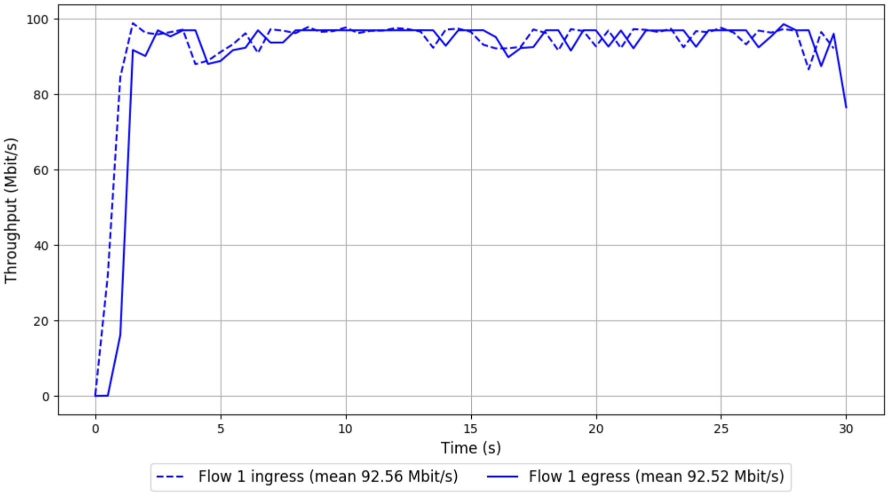


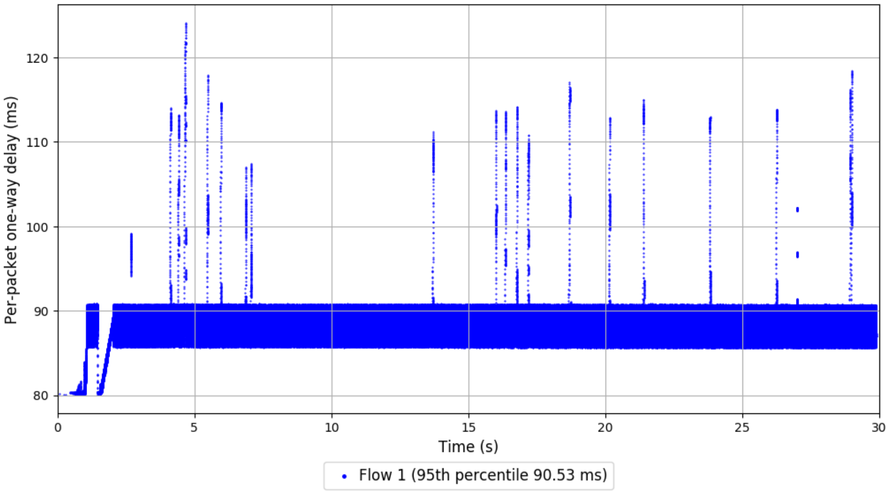
```
Run 7: Statistics of FillP

Start at: 2018-06-19 03:41:19
End at: 2018-06-19 03:41:49
Local clock offset: -4.577 ms
Remote clock offset: 14.065 ms

# Below is generated by plot.py at 2018-06-19 04:54:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.52 Mbit/s
95th percentile per-packet one-way delay: 90.527 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 92.52 Mbit/s
95th percentile per-packet one-way delay: 90.527 ms
Loss rate: 0.58%
```

Run 7: Report of FillP — Data Link



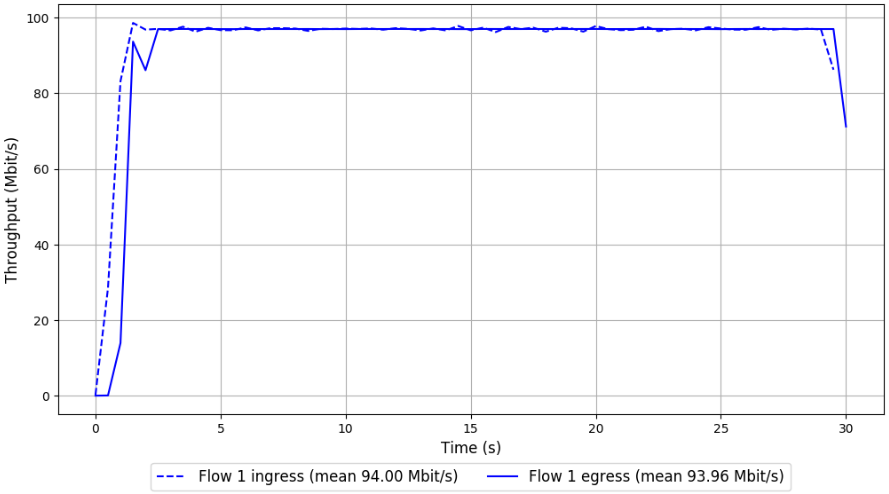


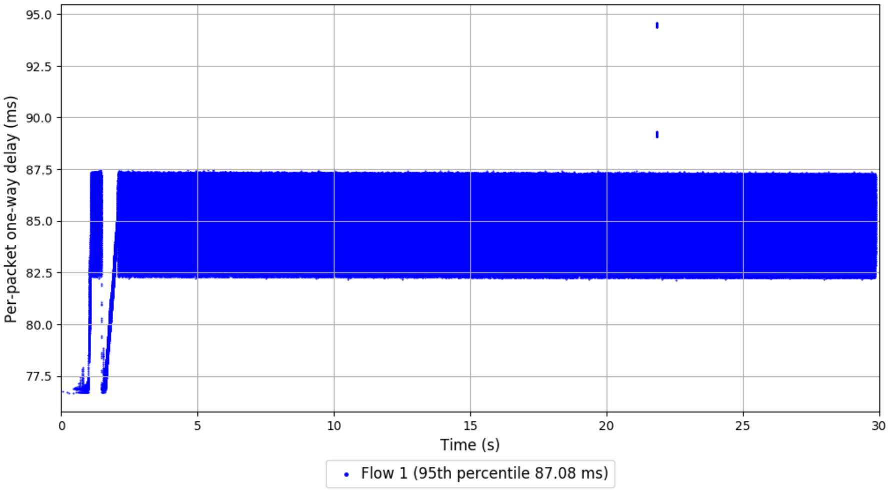
```
Run 8: Statistics of FillP

Start at: 2018-06-19 03:59:56
End at: 2018-06-19 04:00:26
Local clock offset: -1.964 ms
Remote clock offset: 12.544 ms

# Below is generated by plot.py at 2018-06-19 04:54:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.96 Mbit/s
95th percentile per-packet one-way delay: 87.078 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 93.96 Mbit/s
95th percentile per-packet one-way delay: 87.078 ms
Loss rate: 0.56%
```

Run 8: Report of FillP — Data Link



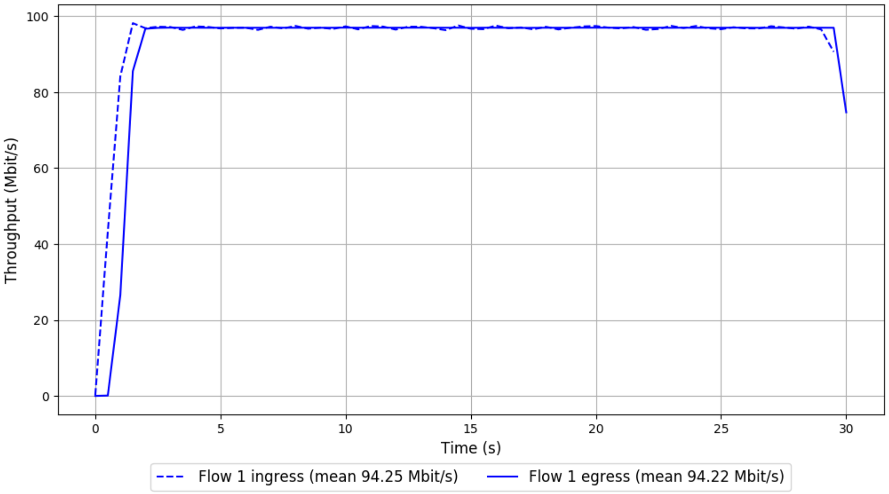


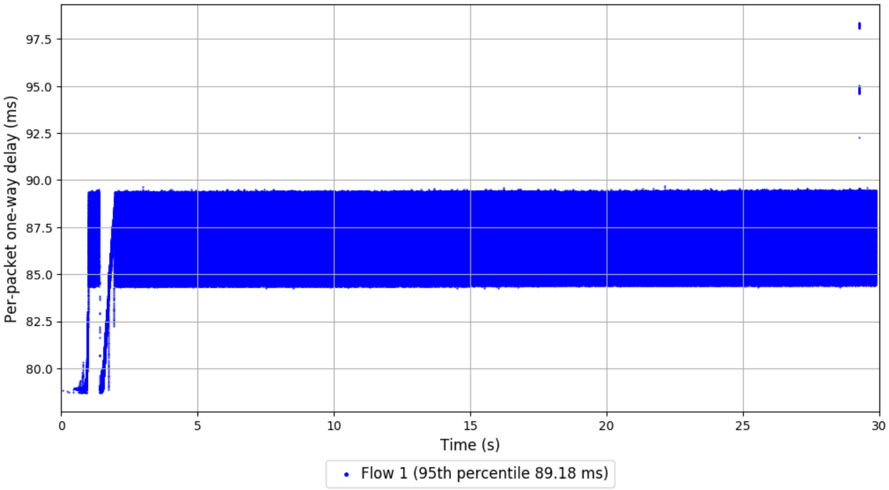
```
Run 9: Statistics of FillP

Start at: 2018-06-19 04:18:35
End at: 2018-06-19 04:19:05
Local clock offset: -6.191 ms
Remote clock offset: 12.216 ms

# Below is generated by plot.py at 2018-06-19 04:55:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.22 Mbit/s
95th percentile per-packet one-way delay: 89.184 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 94.22 Mbit/s
95th percentile per-packet one-way delay: 89.184 ms
Loss rate: 0.58%
```

Run 9: Report of FillP — Data Link



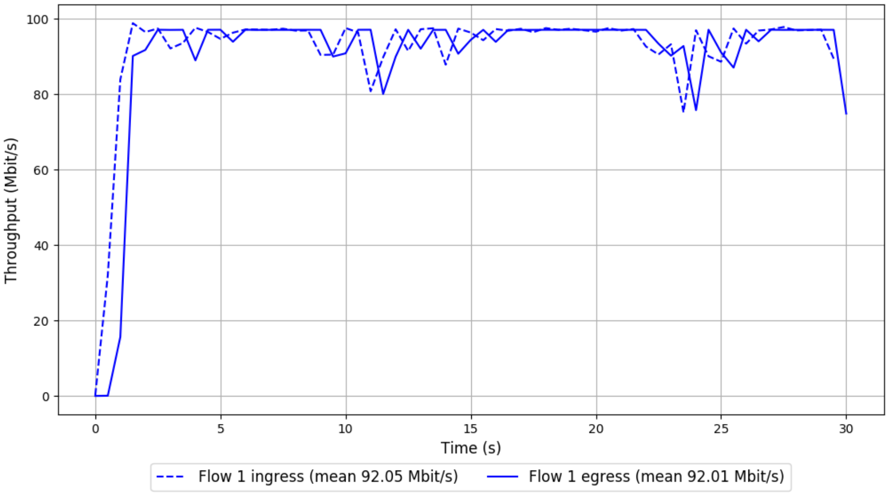


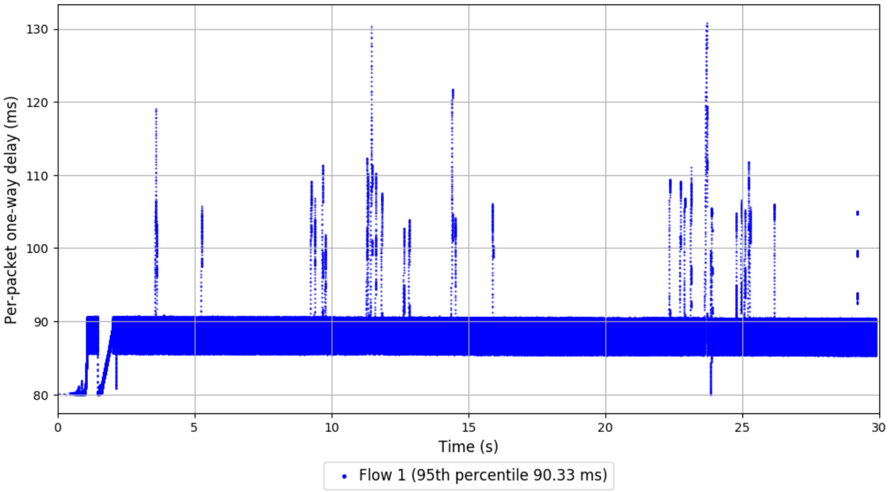
```
Run 10: Statistics of FillP

Start at: 2018-06-19 04:37:14
End at: 2018-06-19 04:37:44
Local clock offset: -5.848 ms
Remote clock offset: 4.574 ms

# Below is generated by plot.py at 2018-06-19 04:55:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 90.330 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 92.01 Mbit/s
95th percentile per-packet one-way delay: 90.330 ms
Loss rate: 0.58%
```

Run 10: Report of FillP — Data Link



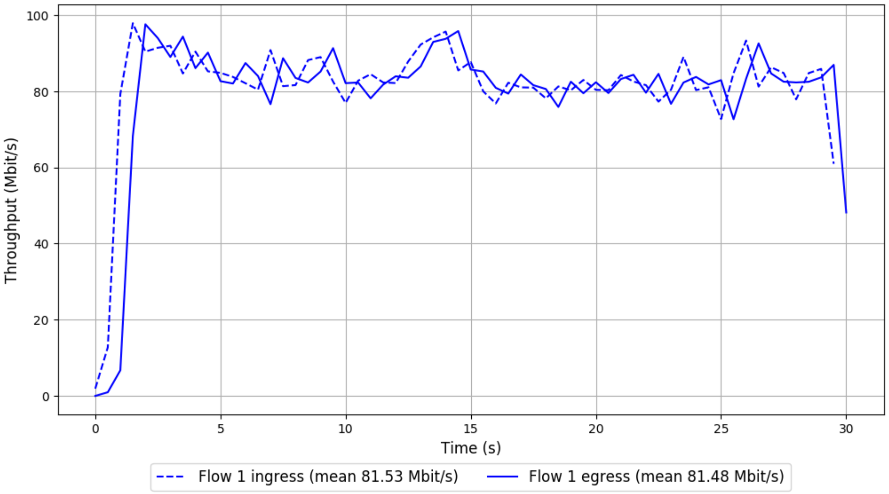


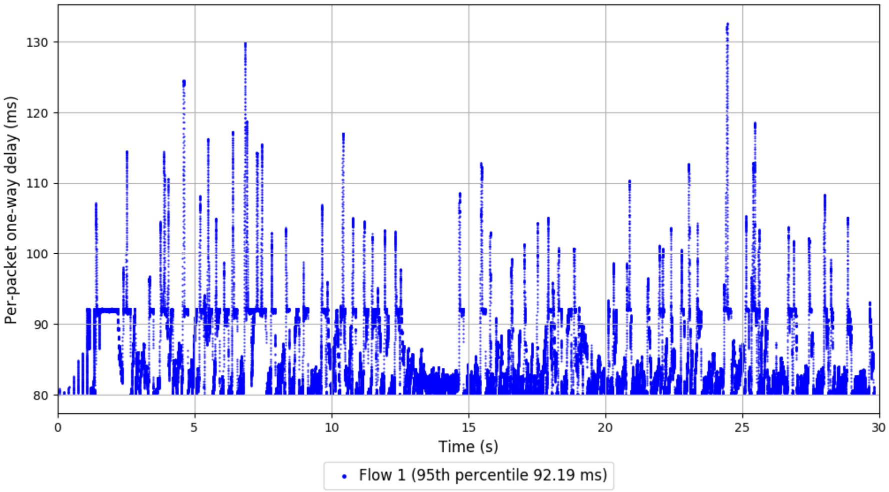
```
Run 1: Statistics of Indigo

Start at: 2018-06-19 01:56:35
End at: 2018-06-19 01:57:05
Local clock offset: -2.274 ms
Remote clock offset: 12.01 ms

# Below is generated by plot.py at 2018-06-19 04:55:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 81.48 Mbit/s
95th percentile per-packet one-way delay: 92.195 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 81.48 Mbit/s
95th percentile per-packet one-way delay: 92.195 ms
Loss rate: 0.57%
```

Run 1: Report of Indigo — Data Link



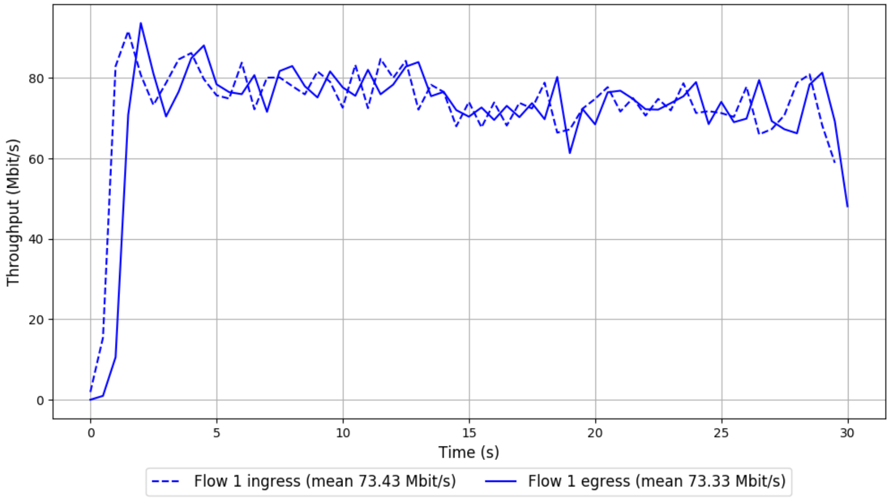


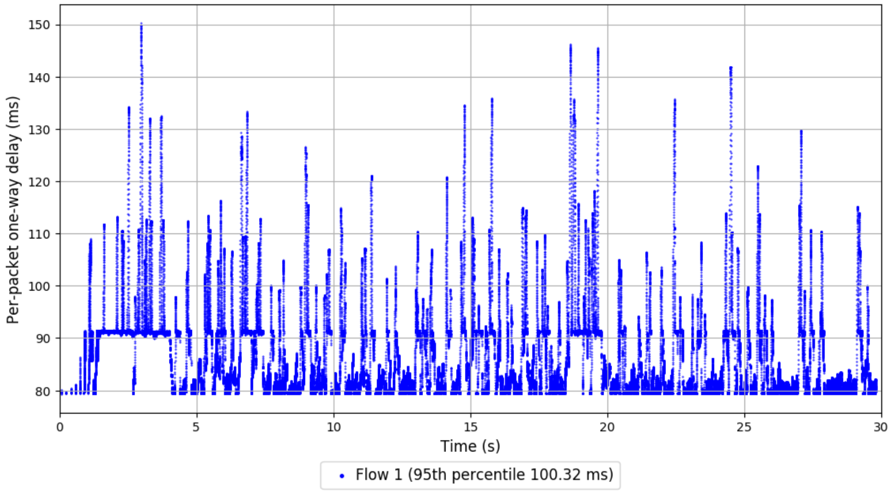
```
Run 2: Statistics of Indigo

Start at: 2018-06-19 02:14:59
End at: 2018-06-19 02:15:29
Local clock offset: -1.95 ms
Remote clock offset: 11.293 ms

# Below is generated by plot.py at 2018-06-19 04:55:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 73.33 Mbit/s
95th percentile per-packet one-way delay: 100.321 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 73.33 Mbit/s
95th percentile per-packet one-way delay: 100.321 ms
Loss rate: 0.67%
```

Run 2: Report of Indigo — Data Link



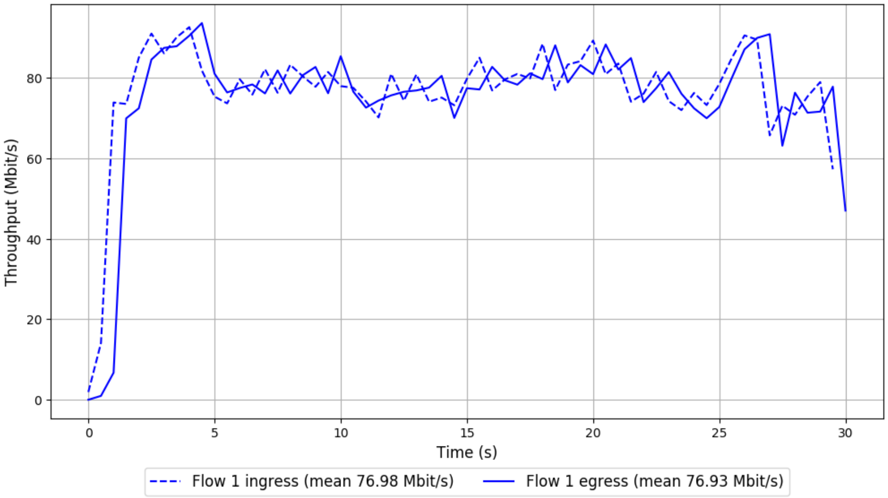


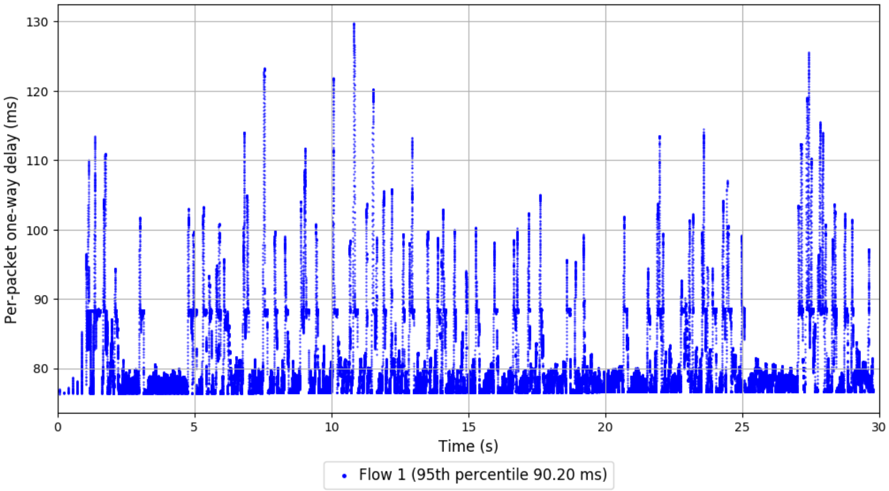
```
Run 3: Statistics of Indigo

Start at: 2018-06-19 02:33:34
End at: 2018-06-19 02:34:04
Local clock offset: -1.831 ms
Remote clock offset: 12.753 ms

# Below is generated by plot.py at 2018-06-19 04:55:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 76.93 Mbit/s
95th percentile per-packet one-way delay: 90.202 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 76.93 Mbit/s
95th percentile per-packet one-way delay: 90.202 ms
Loss rate: 0.58%
```

Run 3: Report of Indigo — Data Link



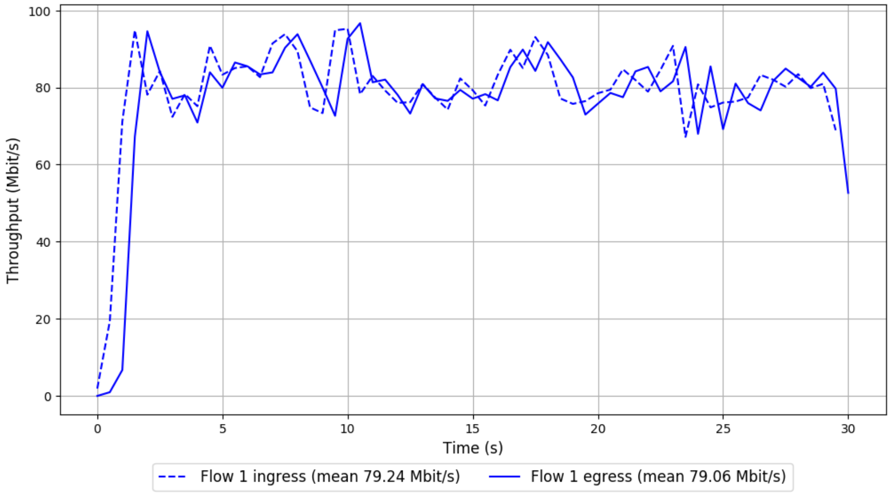


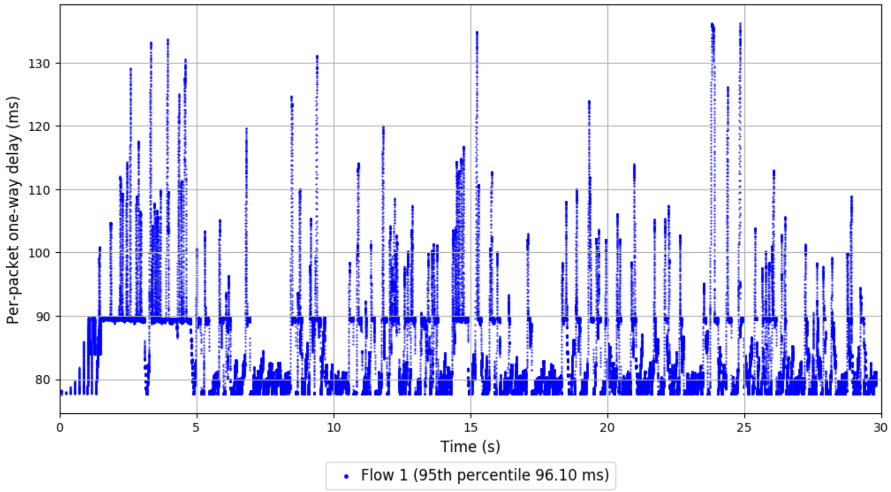
```
Run 4: Statistics of Indigo

Start at: 2018-06-19 02:52:10
End at: 2018-06-19 02:52:40
Local clock offset: -6.897 ms
Remote clock offset: 5.35 ms

# Below is generated by plot.py at 2018-06-19 04:55:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.06 Mbit/s
95th percentile per-packet one-way delay: 96.103 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 79.06 Mbit/s
95th percentile per-packet one-way delay: 96.103 ms
Loss rate: 0.74%
```

Run 4: Report of Indigo — Data Link



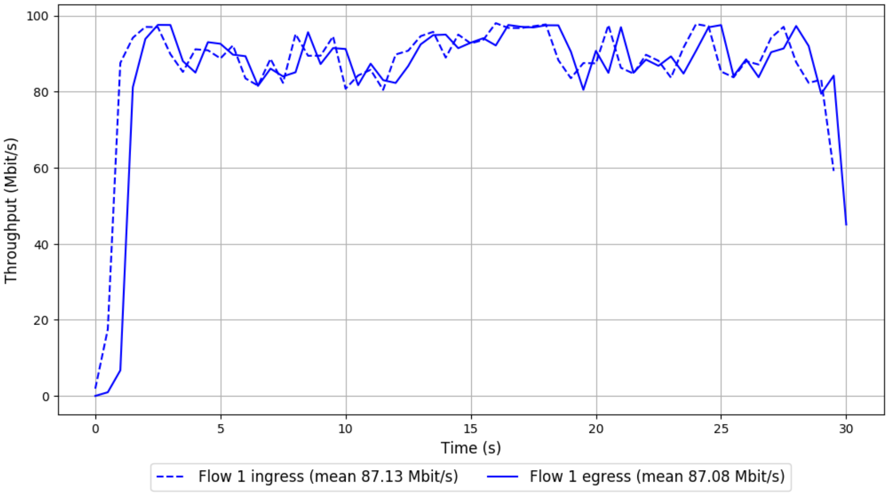


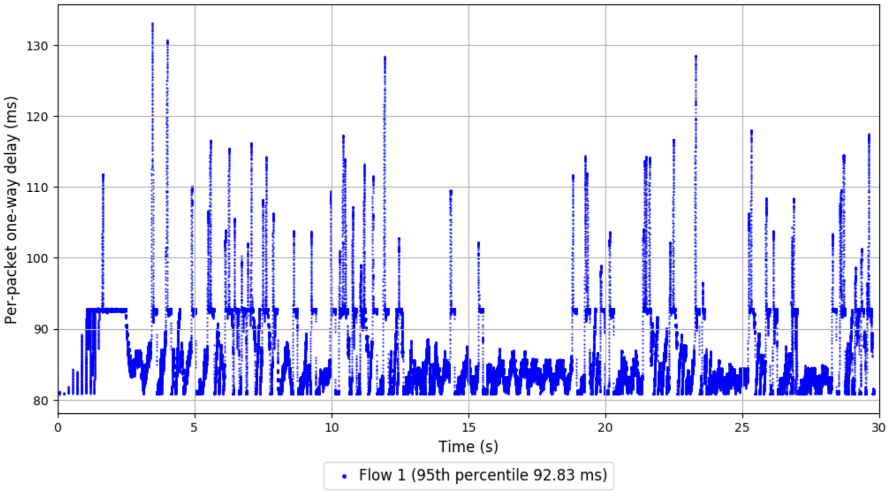
```
Run 5: Statistics of Indigo

Start at: 2018-06-19 03:10:52
End at: 2018-06-19 03:11:22
Local clock offset: -7.59 ms
Remote clock offset: 2.052 ms

# Below is generated by plot.py at 2018-06-19 04:55:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.08 Mbit/s
95th percentile per-packet one-way delay: 92.833 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 87.08 Mbit/s
95th percentile per-packet one-way delay: 92.833 ms
Loss rate: 0.58%
```

Run 5: Report of Indigo — Data Link



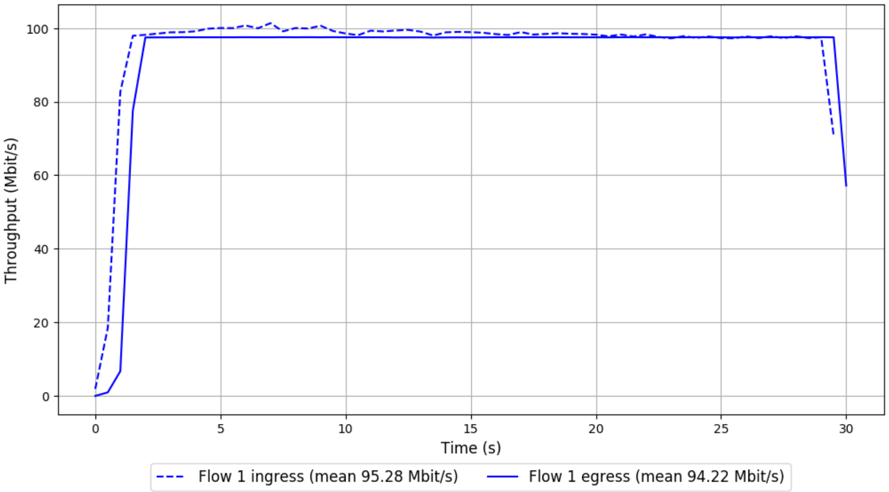


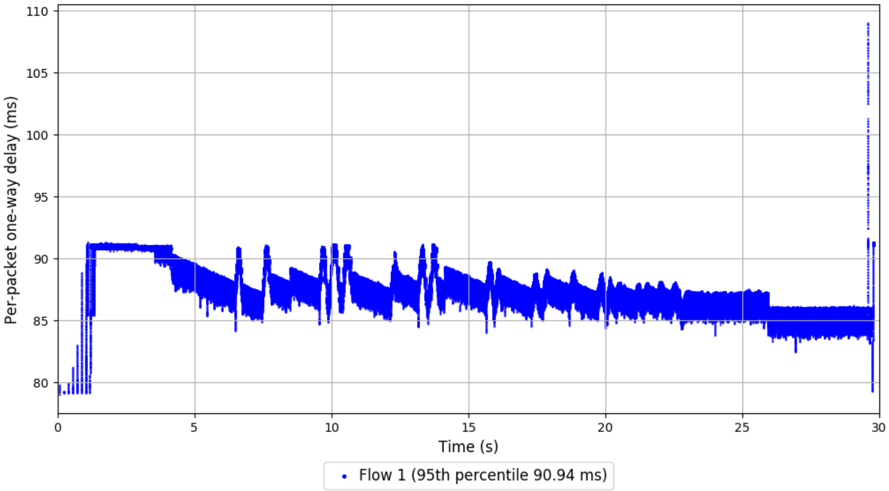
```
Run 6: Statistics of Indigo

Start at: 2018-06-19 03:29:36
End at: 2018-06-19 03:30:06
Local clock offset: -7.703 ms
Remote clock offset: 10.923 ms

# Below is generated by plot.py at 2018-06-19 04:55:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.22 Mbit/s
95th percentile per-packet one-way delay: 90.941 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 94.22 Mbit/s
95th percentile per-packet one-way delay: 90.941 ms
Loss rate: 1.62%
```

Run 6: Report of Indigo — Data Link



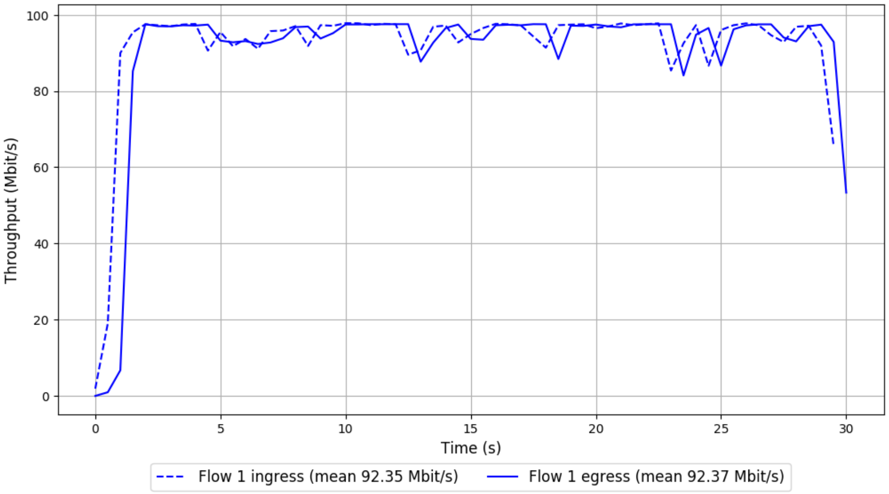


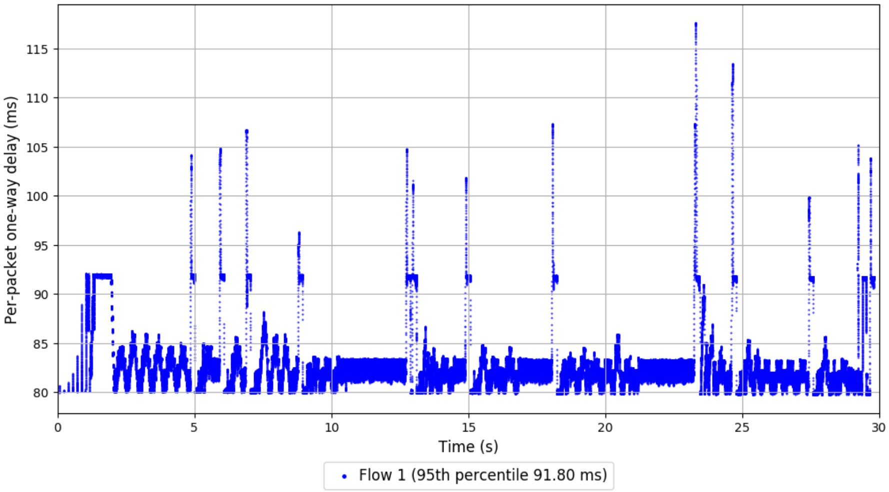
```
Run 7: Statistics of Indigo

Start at: 2018-06-19 03:48:17
End at: 2018-06-19 03:48:47
Local clock offset: -3.049 ms
Remote clock offset: 14.417 ms

# Below is generated by plot.py at 2018-06-19 04:56:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 91.798 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 92.37 Mbit/s
95th percentile per-packet one-way delay: 91.798 ms
Loss rate: 0.50%
```

Run 7: Report of Indigo — Data Link



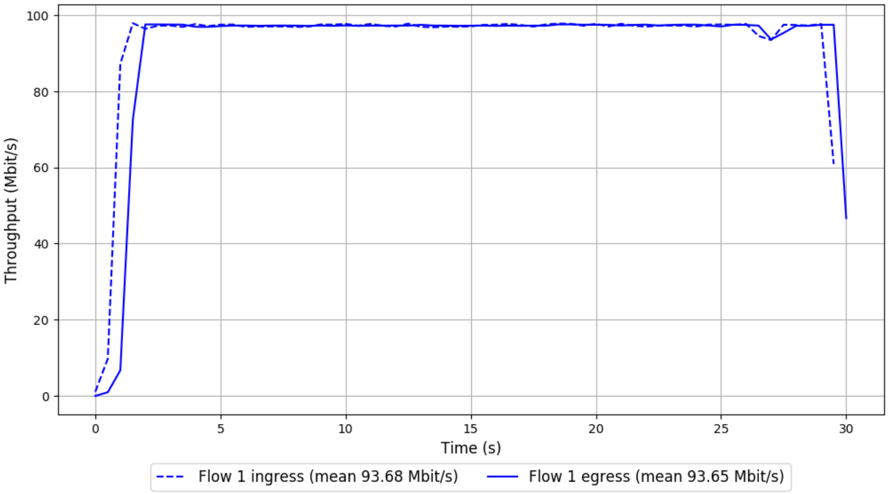


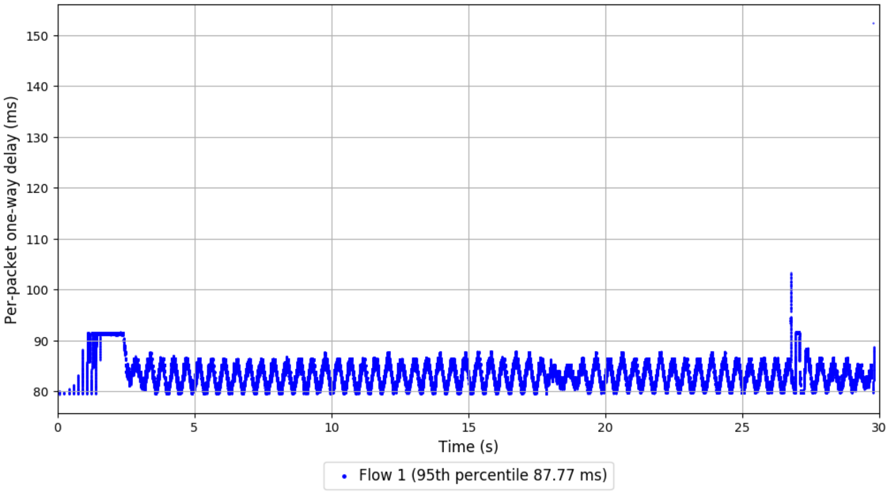
```
Run 8: Statistics of Indigo

Start at: 2018-06-19 04:06:53
End at: 2018-06-19 04:07:23
Local clock offset: -3.185 ms
Remote clock offset: 9.88 ms

# Below is generated by plot.py at 2018-06-19 04:56:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 87.767 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 93.65 Mbit/s
95th percentile per-packet one-way delay: 87.767 ms
Loss rate: 0.55%
```

Run 8: Report of Indigo — Data Link



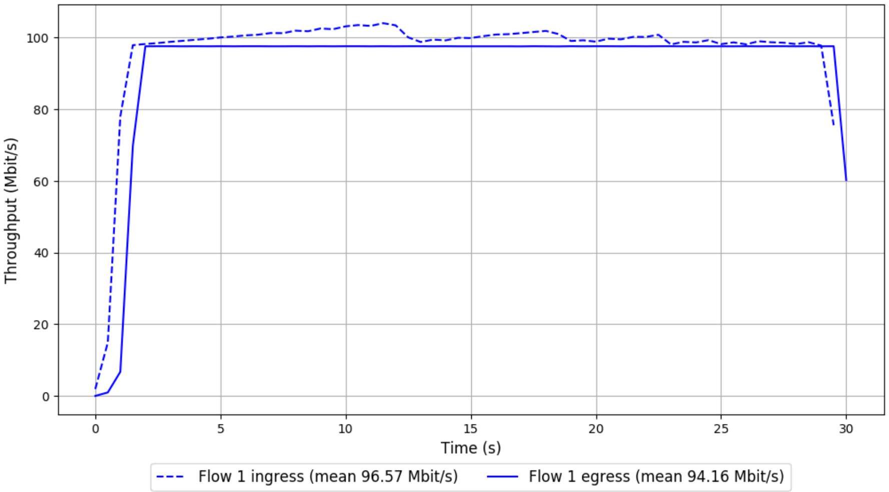


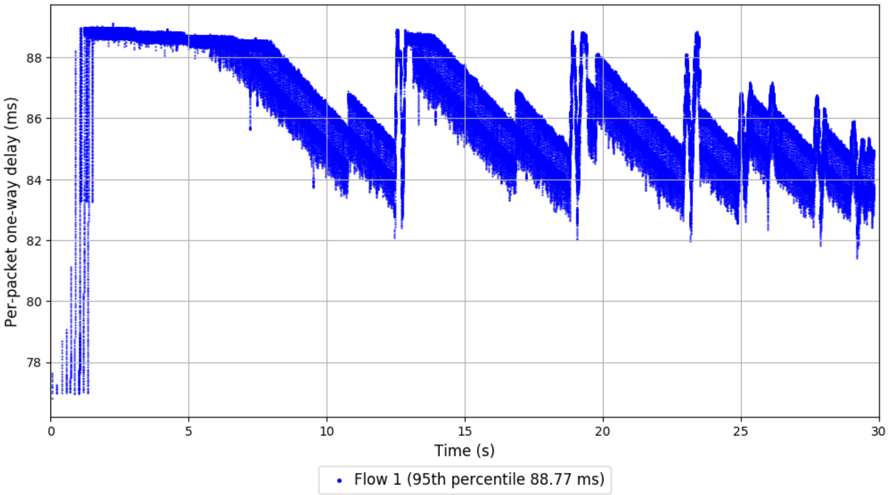
```
Run 9: Statistics of Indigo

Start at: 2018-06-19 04:25:34
End at: 2018-06-19 04:26:04
Local clock offset: -6.975 ms
Remote clock offset: 9.756 ms

# Below is generated by plot.py at 2018-06-19 04:56:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 88.768 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 88.768 ms
Loss rate: 3.01%
```

Run 9: Report of Indigo — Data Link



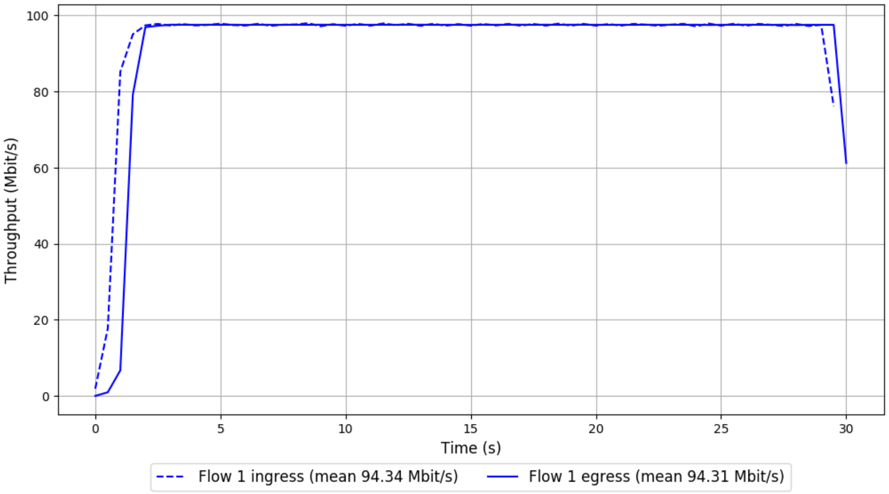


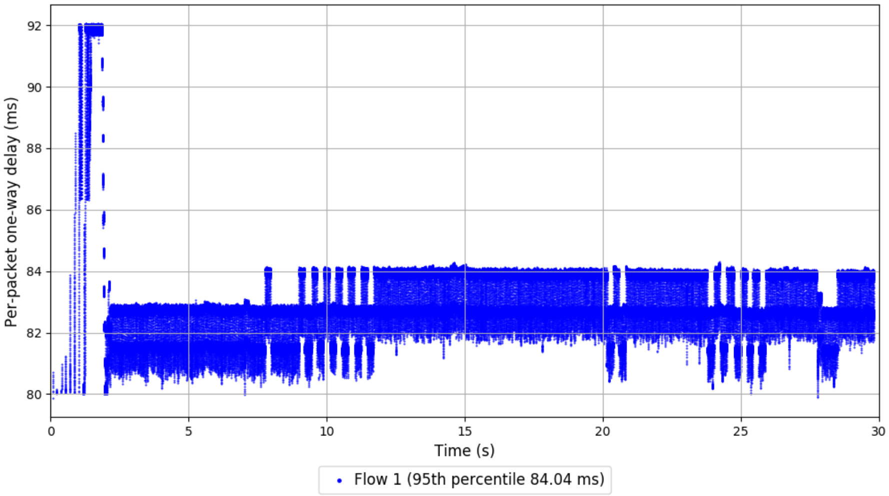
```
Run 10: Statistics of Indigo

Start at: 2018-06-19 04:44:12
End at: 2018-06-19 04:44:42
Local clock offset: -3.594 ms
Remote clock offset: 4.948 ms

# Below is generated by plot.py at 2018-06-19 04:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 84.037 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 94.31 Mbit/s
95th percentile per-packet one-way delay: 84.037 ms
Loss rate: 0.55%
```

Run 10: Report of Indigo — Data Link



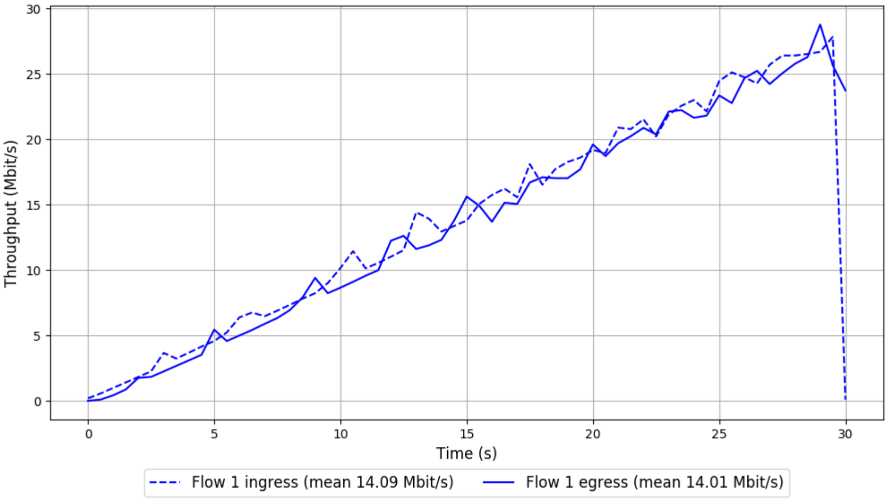


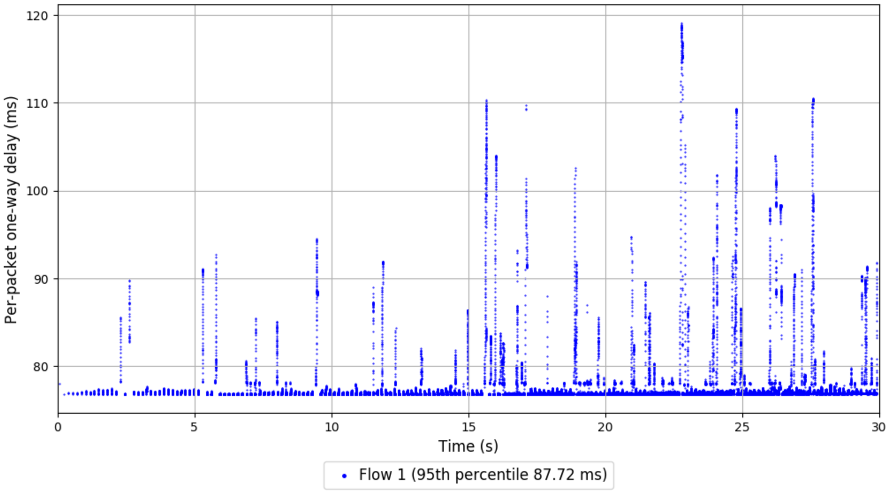
```
Run 1: Statistics of LEDBAT

Start at: 2018-06-19 01:43:56
End at: 2018-06-19 01:44:26
Local clock offset: -2.286 ms
Remote clock offset: 11.216 ms

# Below is generated by plot.py at 2018-06-19 04:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 87.724 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 87.724 ms
Loss rate: 1.05%
```

Run 1: Report of LEDBAT — Data Link



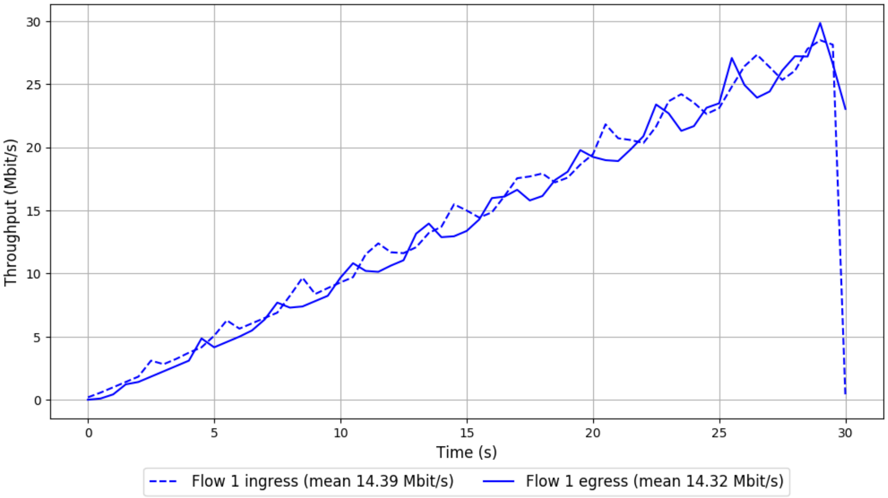


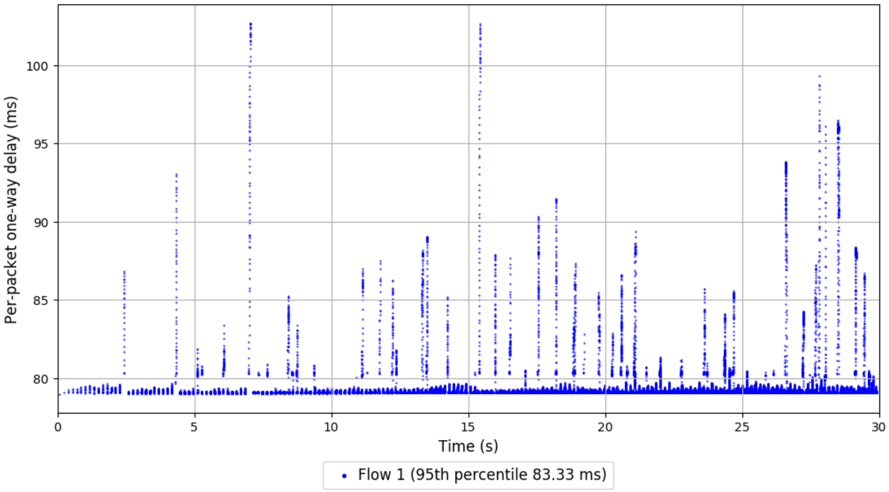
```
Run 2: Statistics of LEDBAT

Start at: 2018-06-19 02:02:21
End at: 2018-06-19 02:02:51
Local clock offset: -2.267 ms
Remote clock offset: 13.713 ms

# Below is generated by plot.py at 2018-06-19 04:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 83.330 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 14.32 Mbit/s
95th percentile per-packet one-way delay: 83.330 ms
Loss rate: 1.05%
```

Run 2: Report of LEDBAT — Data Link



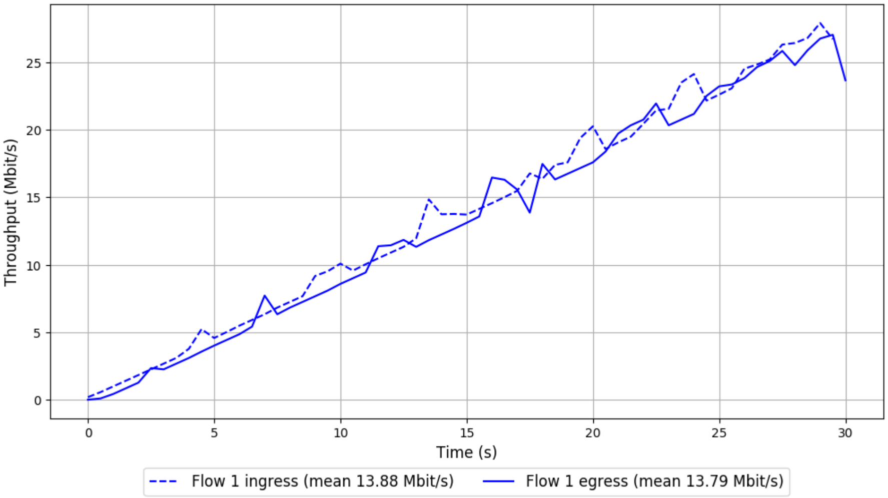


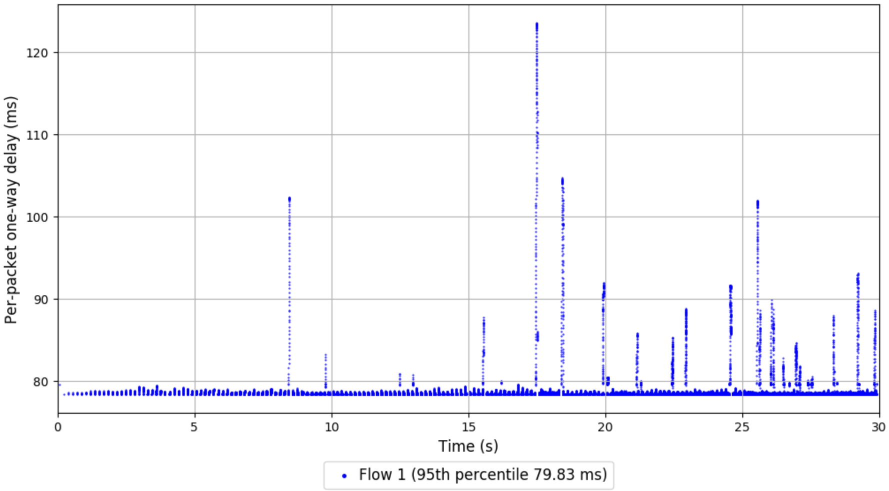
```
Run 3: Statistics of LEDBAT

Start at: 2018-06-19 02:20:46
End at: 2018-06-19 02:21:16
Local clock offset: -1.874 ms
Remote clock offset: 12.259 ms

# Below is generated by plot.py at 2018-06-19 04:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.79 Mbit/s
95th percentile per-packet one-way delay: 79.835 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 13.79 Mbit/s
95th percentile per-packet one-way delay: 79.835 ms
Loss rate: 1.06%
```

Run 3: Report of LEDBAT — Data Link



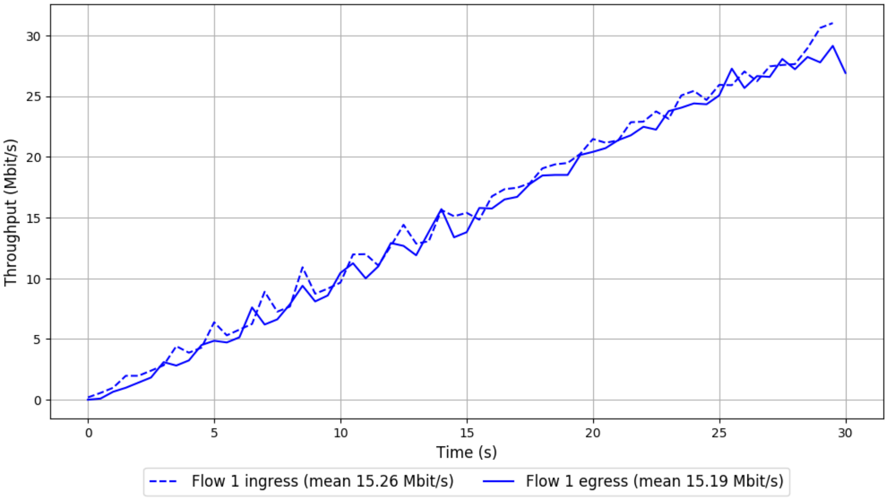


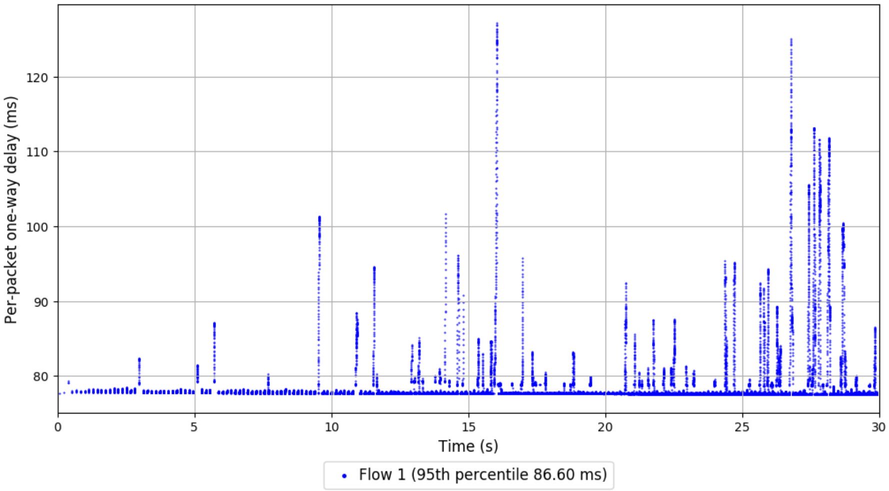
```
Run 4: Statistics of LEDBAT

Start at: 2018-06-19 02:39:20
End at: 2018-06-19 02:39:50
Local clock offset: -4.23 ms
Remote clock offset: 11.166 ms

# Below is generated by plot.py at 2018-06-19 04:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.19 Mbit/s
95th percentile per-packet one-way delay: 86.597 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 15.19 Mbit/s
95th percentile per-packet one-way delay: 86.597 ms
Loss rate: 1.02%
```

Run 4: Report of LEDBAT — Data Link



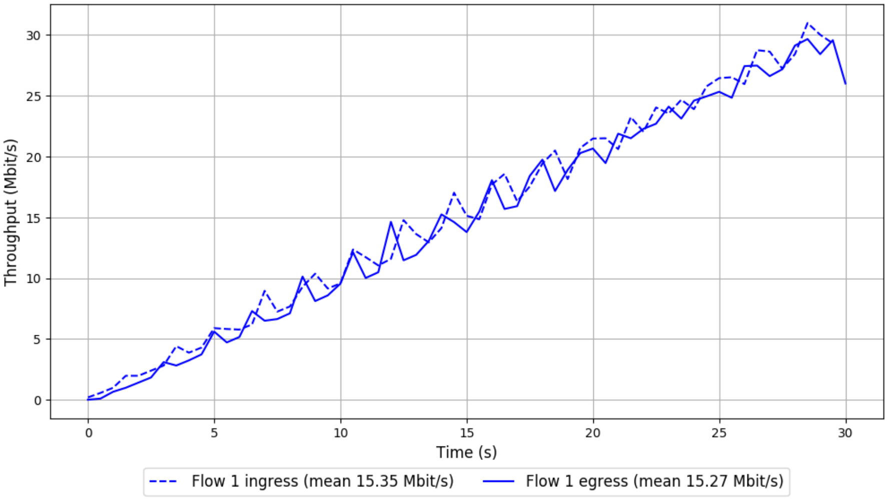


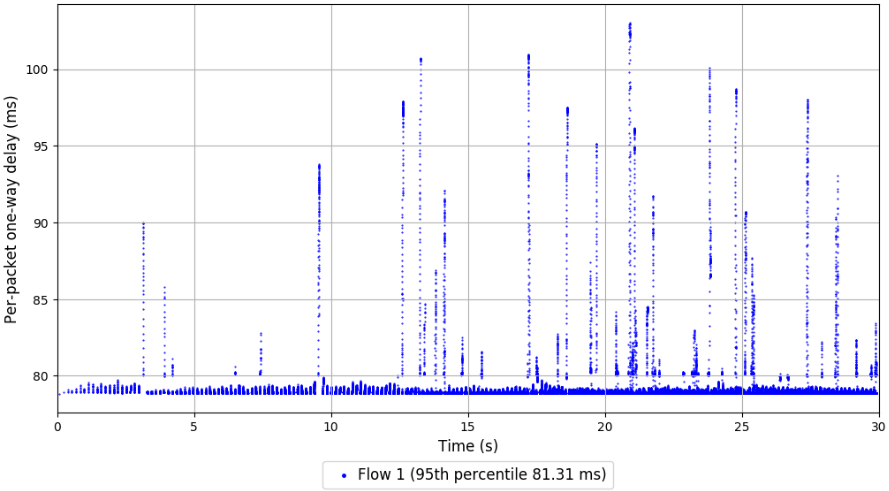
```
Run 5: Statistics of LEDBAT

Start at: 2018-06-19 02:58:02
End at: 2018-06-19 02:58:32
Local clock offset: -7.614 ms
Remote clock offset: 3.492 ms

# Below is generated by plot.py at 2018-06-19 04:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.27 Mbit/s
95th percentile per-packet one-way delay: 81.310 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 15.27 Mbit/s
95th percentile per-packet one-way delay: 81.310 ms
Loss rate: 1.02%
```

Run 5: Report of LEDBAT — Data Link



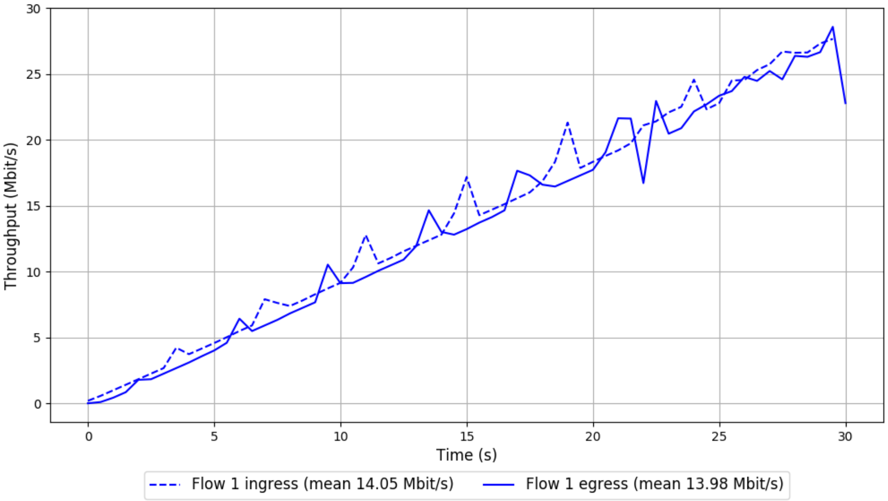


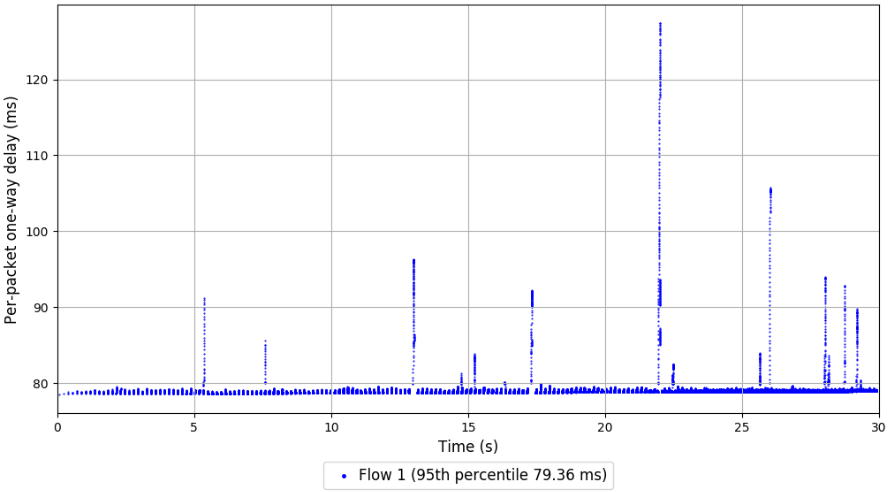
```
Run 6: Statistics of LEDBAT

Start at: 2018-06-19 03:16:43
End at: 2018-06-19 03:17:13
Local clock offset: -7.45 ms
Remote clock offset: 5.441 ms

# Below is generated by plot.py at 2018-06-19 04:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 79.355 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 13.98 Mbit/s
95th percentile per-packet one-way delay: 79.355 ms
Loss rate: 1.05%
```

Run 6: Report of LEDBAT — Data Link



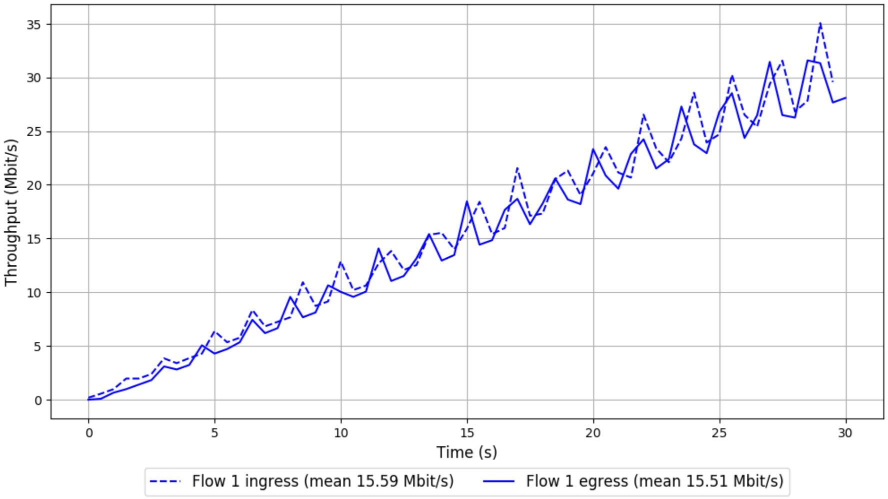


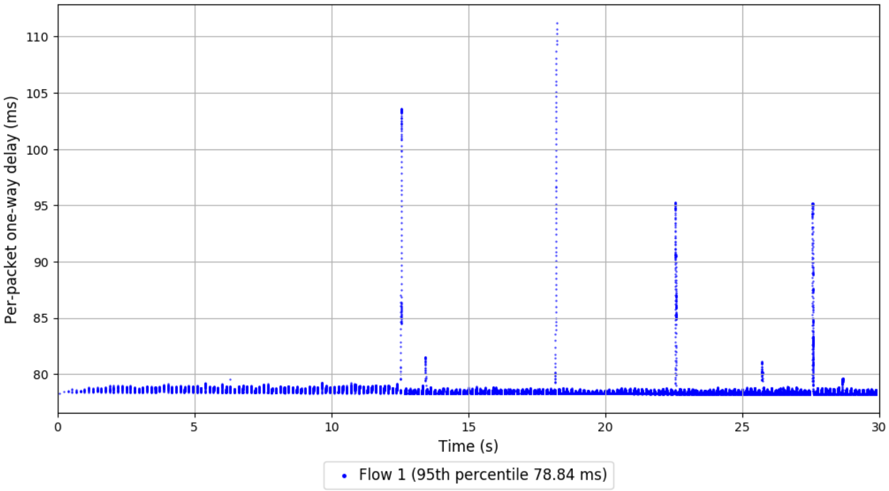
```
Run 7: Statistics of LEDBAT

Start at: 2018-06-19 03:35:26
End at: 2018-06-19 03:35:56
Local clock offset: -6.974 ms
Remote clock offset: 12.288 ms

# Below is generated by plot.py at 2018-06-19 04:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.51 Mbit/s
95th percentile per-packet one-way delay: 78.845 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 15.51 Mbit/s
95th percentile per-packet one-way delay: 78.845 ms
Loss rate: 1.01%
```

Run 7: Report of LEDBAT — Data Link



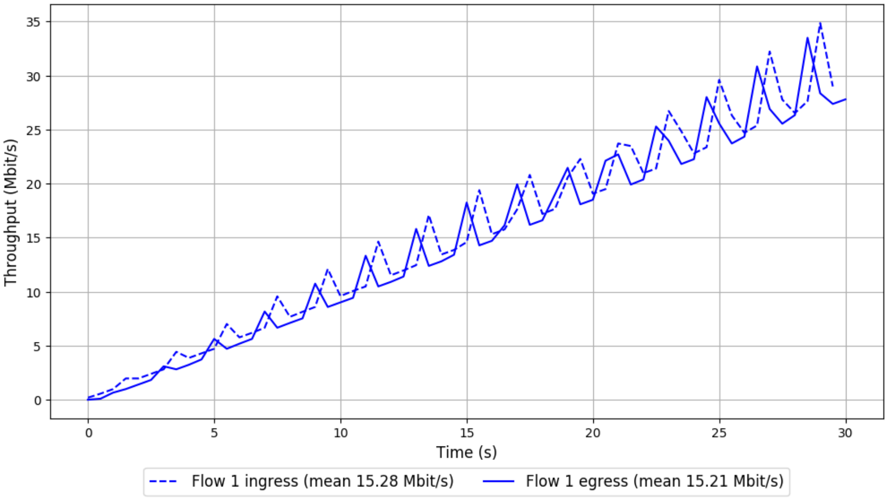


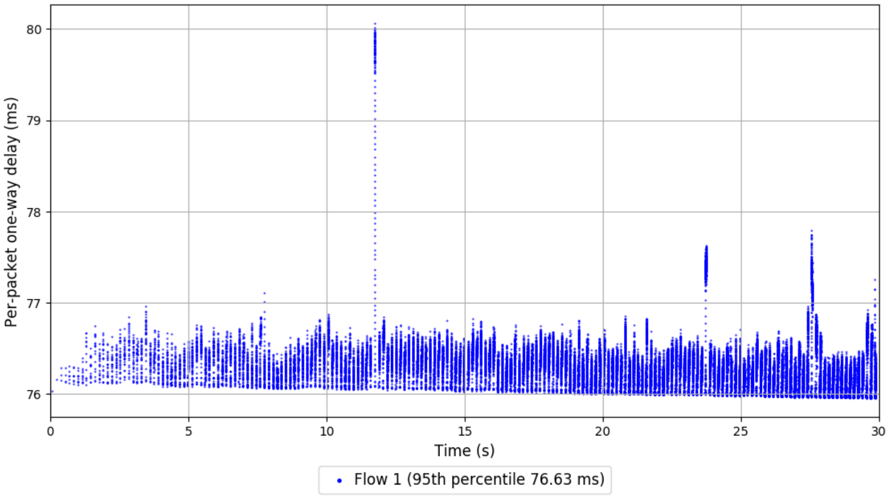
```
Run 8: Statistics of LEDBAT

Start at: 2018-06-19 03:54:05
End at: 2018-06-19 03:54:35
Local clock offset: -2.342 ms
Remote clock offset: 13.527 ms

# Below is generated by plot.py at 2018-06-19 04:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 76.629 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 15.21 Mbit/s
95th percentile per-packet one-way delay: 76.629 ms
Loss rate: 1.02%
```

Run 8: Report of LEDBAT — Data Link



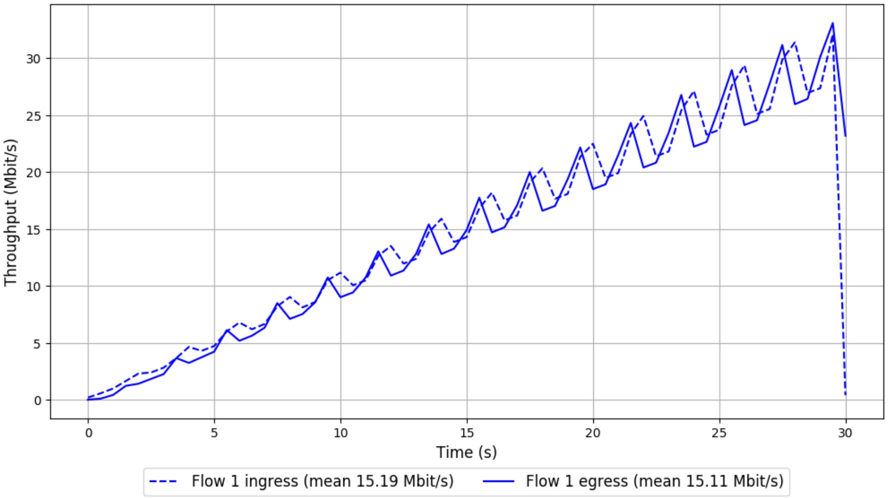


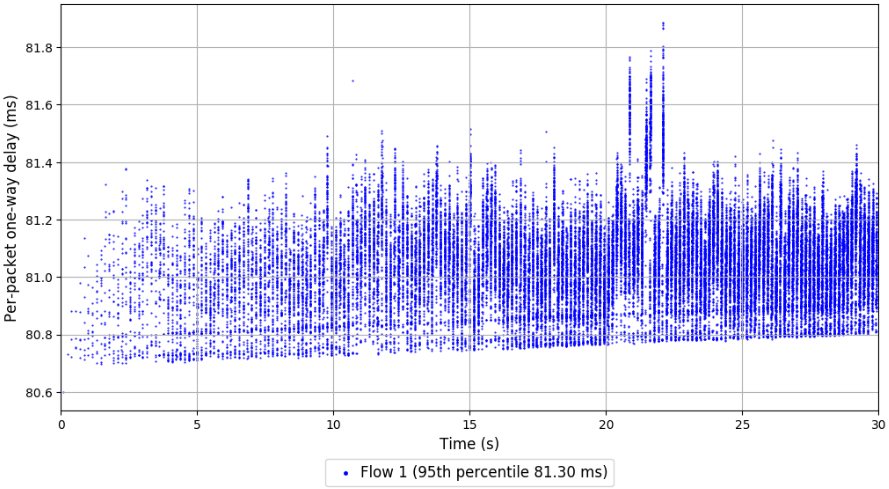
```
Run 9: Statistics of LEDBAT

Start at: 2018-06-19 04:12:43
End at: 2018-06-19 04:13:13
Local clock offset: -5.114 ms
Remote clock offset: 10.204 ms

# Below is generated by plot.py at 2018-06-19 04:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 81.298 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 15.11 Mbit/s
95th percentile per-packet one-way delay: 81.298 ms
Loss rate: 1.02%
```

Run 9: Report of LEDBAT — Data Link



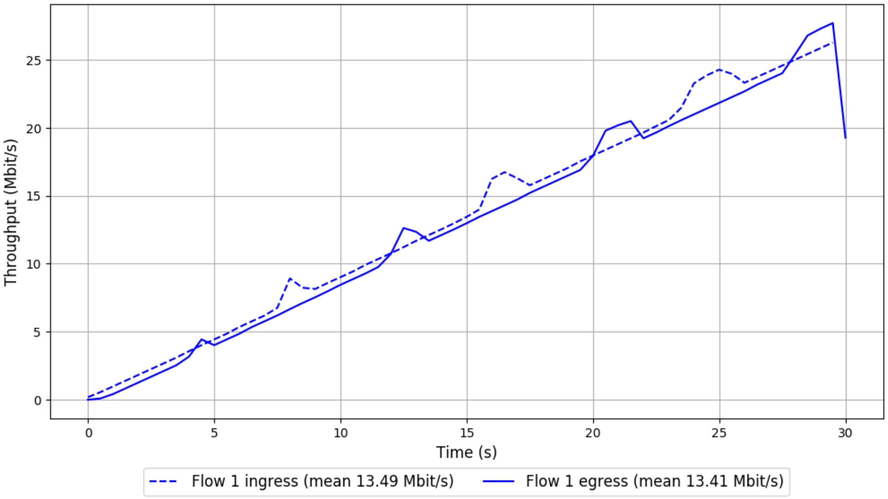


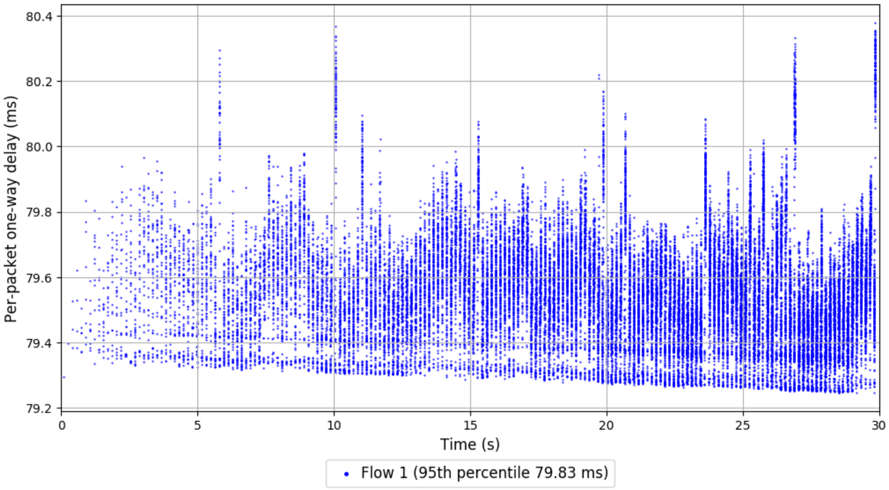
```
Run 10: Statistics of LEDBAT

Start at: 2018-06-19 04:31:23
End at: 2018-06-19 04:31:53
Local clock offset: -7.342 ms
Remote clock offset: 6.829 ms

# Below is generated by plot.py at 2018-06-19 04:56:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.41 Mbit/s
95th percentile per-packet one-way delay: 79.827 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 13.41 Mbit/s
95th percentile per-packet one-way delay: 79.827 ms
Loss rate: 1.09%
```

Run 10: Report of LEDBAT — Data Link



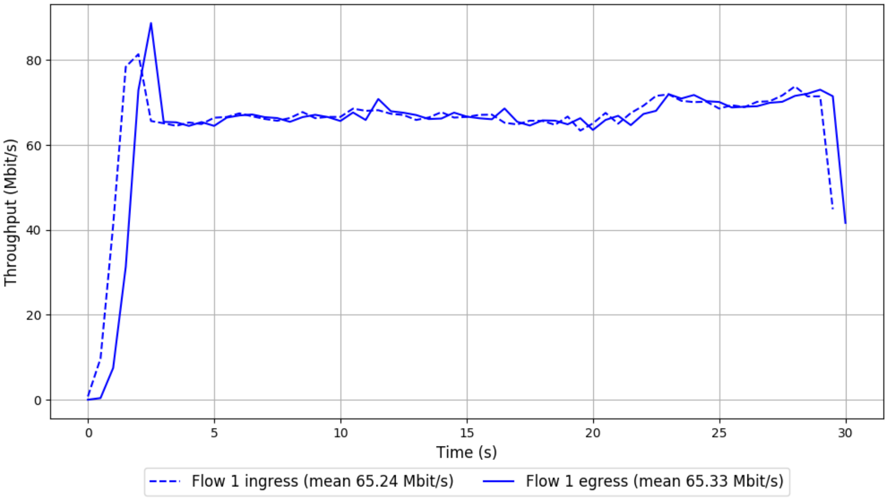


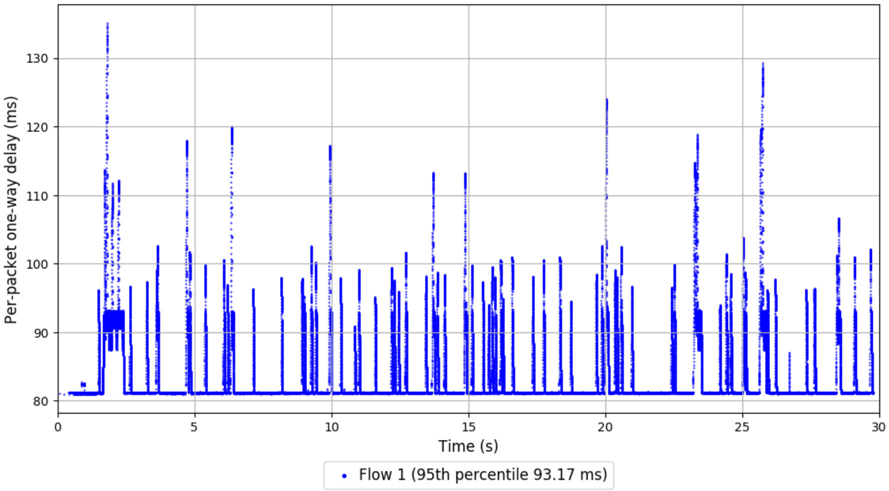
```
Run 1: Statistics of PCC-Allegro

Start at: 2018-06-19 01:57:46
End at: 2018-06-19 01:58:16
Local clock offset: -2.286 ms
Remote clock offset: 11.202 ms

# Below is generated by plot.py at 2018-06-19 04:56:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.33 Mbit/s
95th percentile per-packet one-way delay: 93.173 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 65.33 Mbit/s
95th percentile per-packet one-way delay: 93.173 ms
Loss rate: 0.39%
```

Run 1: Report of PCC-Allegro — Data Link



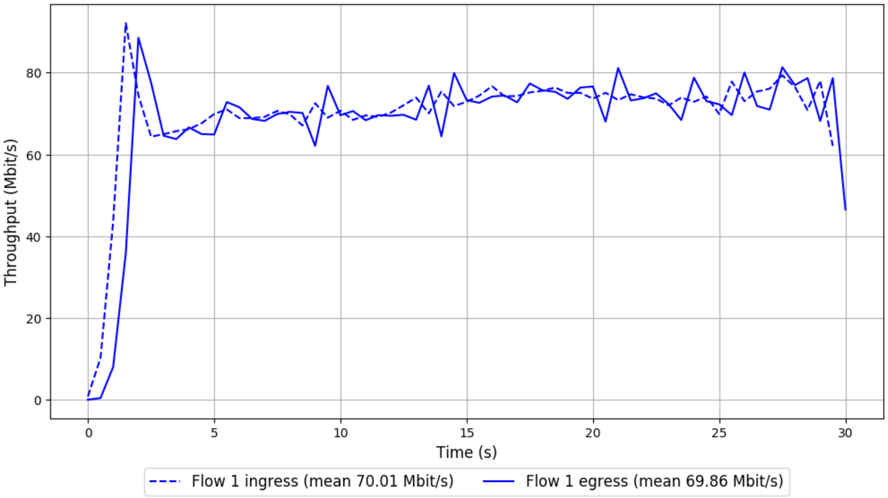


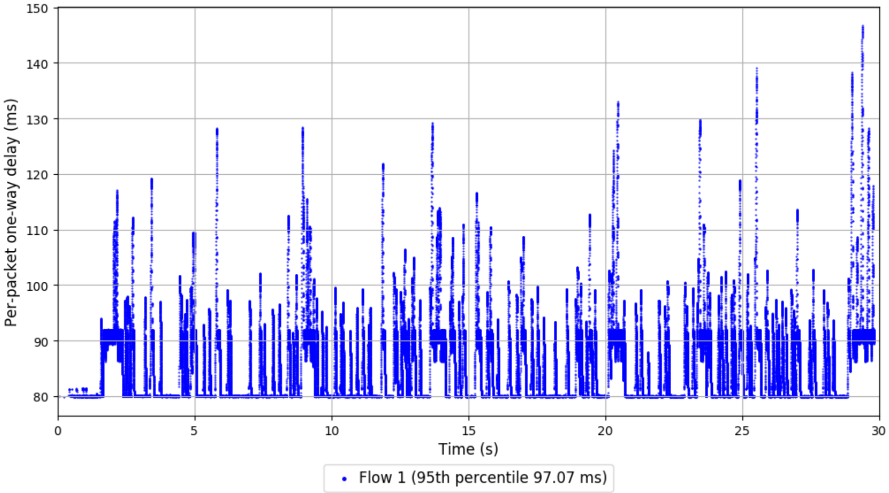
```
Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 02:16:11
End at: 2018-06-19 02:16:41
Local clock offset: -1.944 ms
Remote clock offset: 11.423 ms

# Below is generated by plot.py at 2018-06-19 04:56:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.86 Mbit/s
95th percentile per-packet one-way delay: 97.067 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 69.86 Mbit/s
95th percentile per-packet one-way delay: 97.067 ms
Loss rate: 0.73%
```

Run 2: Report of PCC-Allegro — Data Link



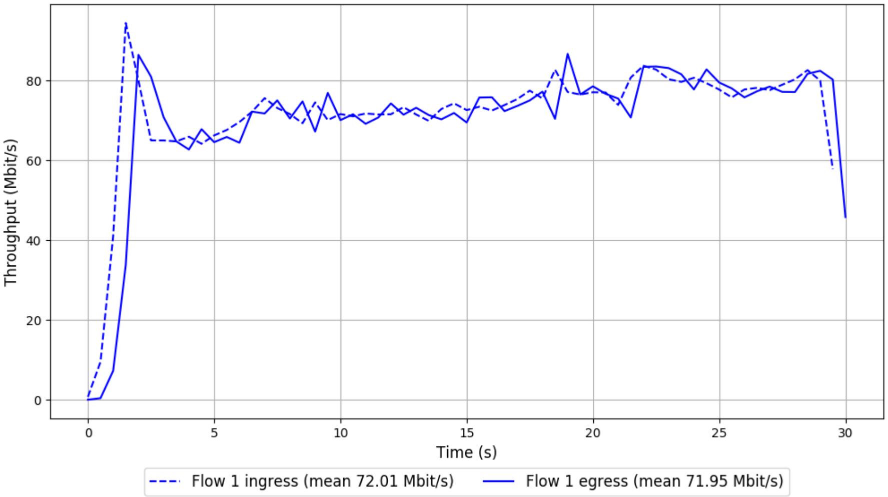


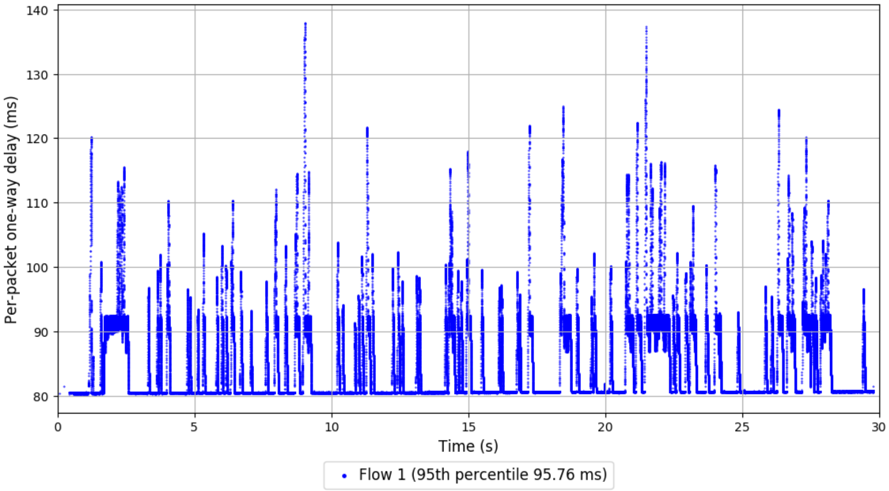
```
Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 02:34:45
End at: 2018-06-19 02:35:15
Local clock offset: -2.304 ms
Remote clock offset: 11.667 ms

# Below is generated by plot.py at 2018-06-19 04:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.95 Mbit/s
95th percentile per-packet one-way delay: 95.758 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 71.95 Mbit/s
95th percentile per-packet one-way delay: 95.758 ms
Loss rate: 0.62%
```

Run 3: Report of PCC-Allegro — Data Link



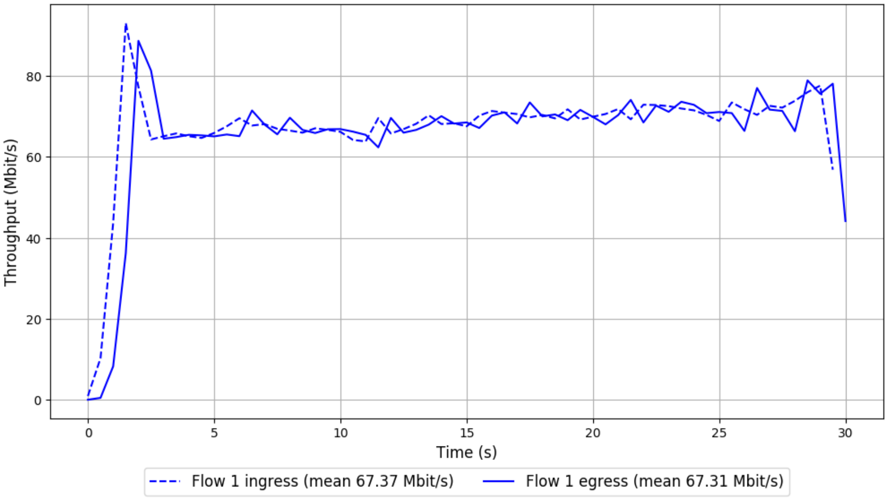


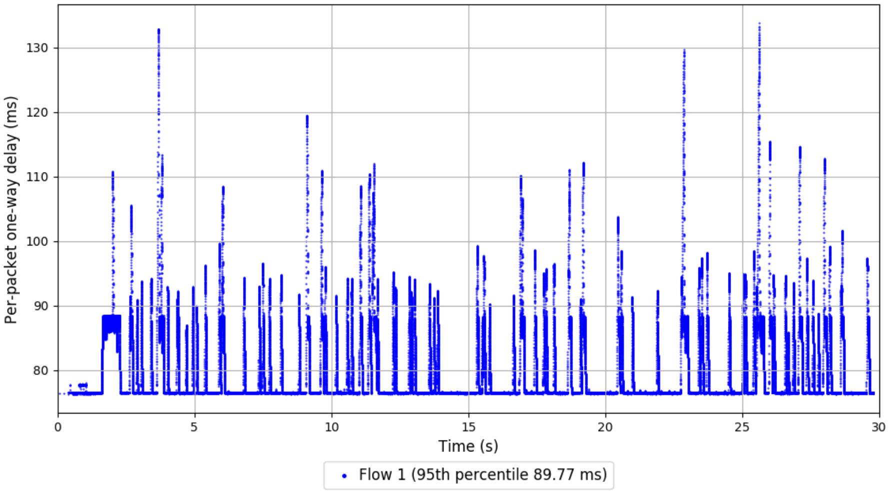
```
Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 02:53:21
End at: 2018-06-19 02:53:51
Local clock offset: -7.054 ms
Remote clock offset: 6.54 ms

# Below is generated by plot.py at 2018-06-19 04:57:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.31 Mbit/s
95th percentile per-packet one-way delay: 89.770 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 67.31 Mbit/s
95th percentile per-packet one-way delay: 89.770 ms
Loss rate: 0.61%
```

Run 4: Report of PCC-Allegro — Data Link



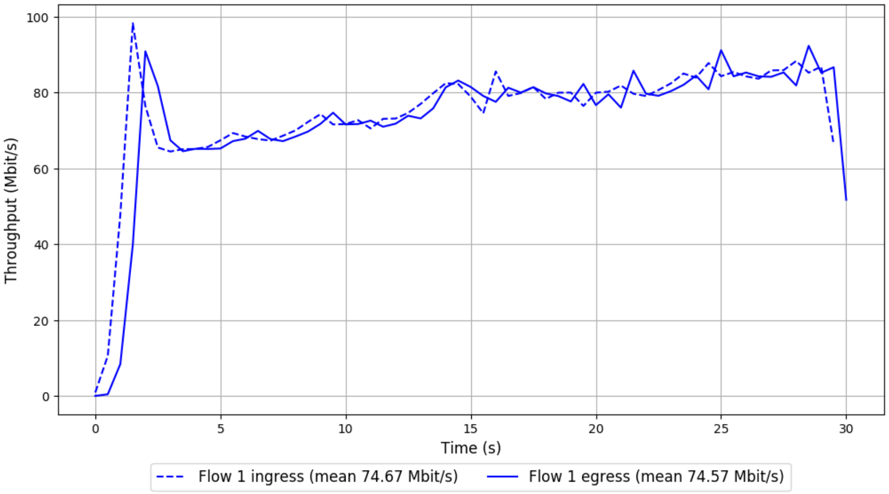


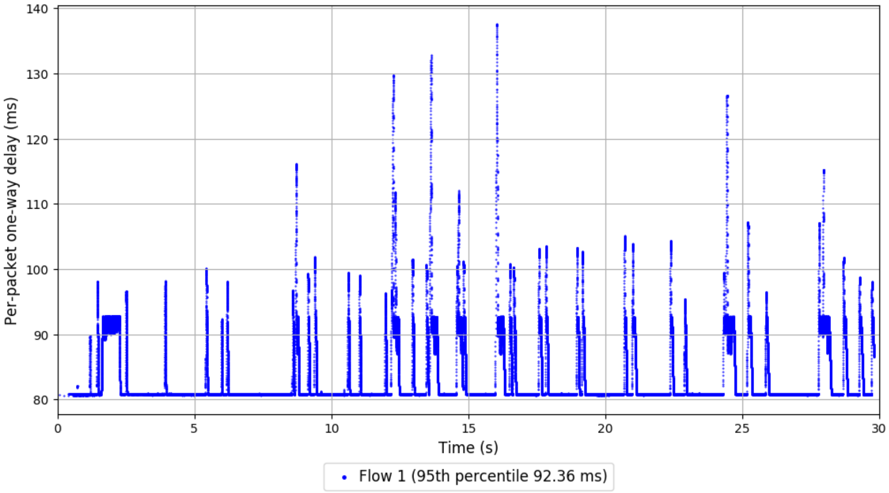
```
Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 03:12:05
End at: 2018-06-19 03:12:35
Local clock offset: -7.48 ms
Remote clock offset: 1.971 ms

# Below is generated by plot.py at 2018-06-19 04:57:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.57 Mbit/s
95th percentile per-packet one-way delay: 92.360 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 74.57 Mbit/s
95th percentile per-packet one-way delay: 92.360 ms
Loss rate: 0.66%
```

Run 5: Report of PCC-Allegro — Data Link



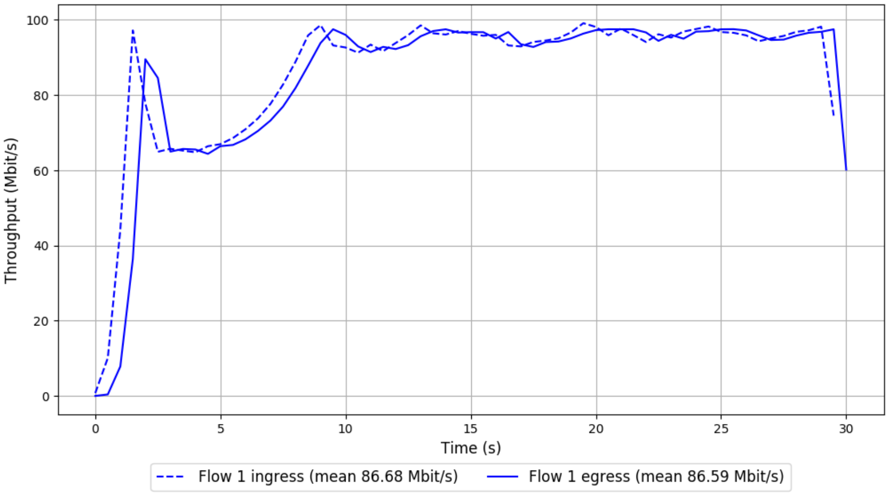


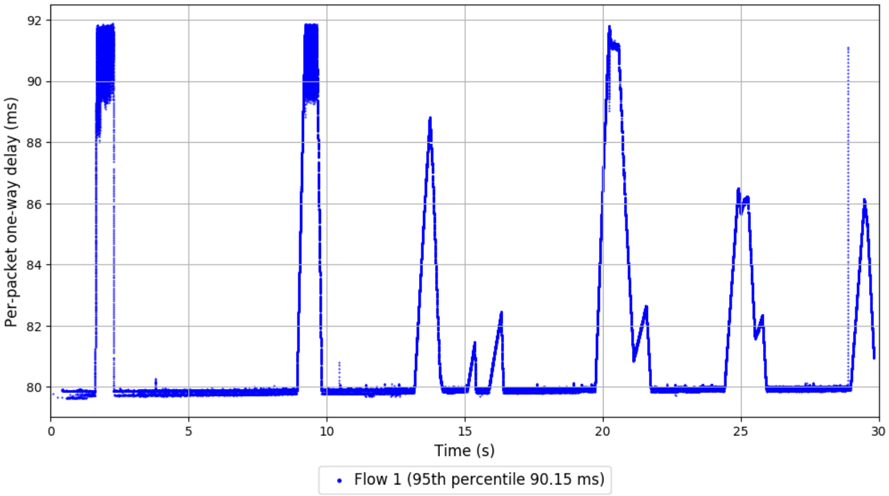
```
Run 6: Statistics of PCC-Allegro

Start at: 2018-06-19 03:30:48
End at: 2018-06-19 03:31:18
Local clock offset: -7.824 ms
Remote clock offset: 12.215 ms

# Below is generated by plot.py at 2018-06-19 04:57:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.59 Mbit/s
95th percentile per-packet one-way delay: 90.150 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 86.59 Mbit/s
95th percentile per-packet one-way delay: 90.150 ms
Loss rate: 0.63%
```

Run 6: Report of PCC-Allegro — Data Link



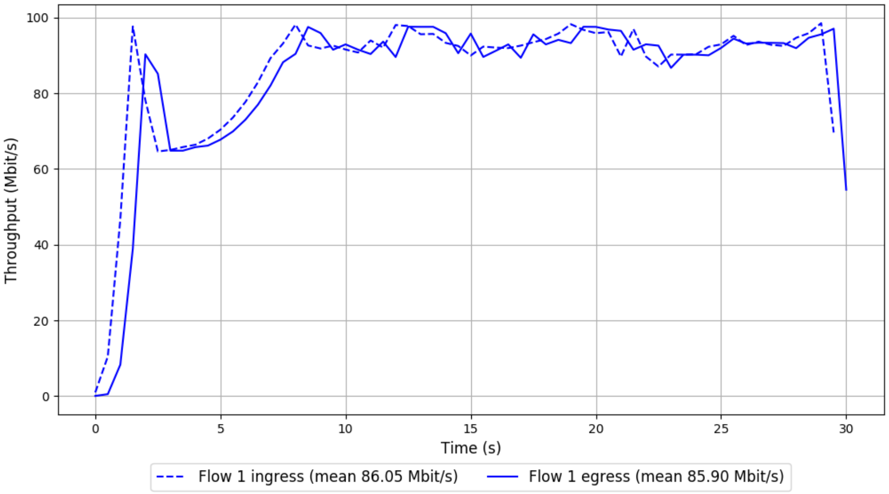


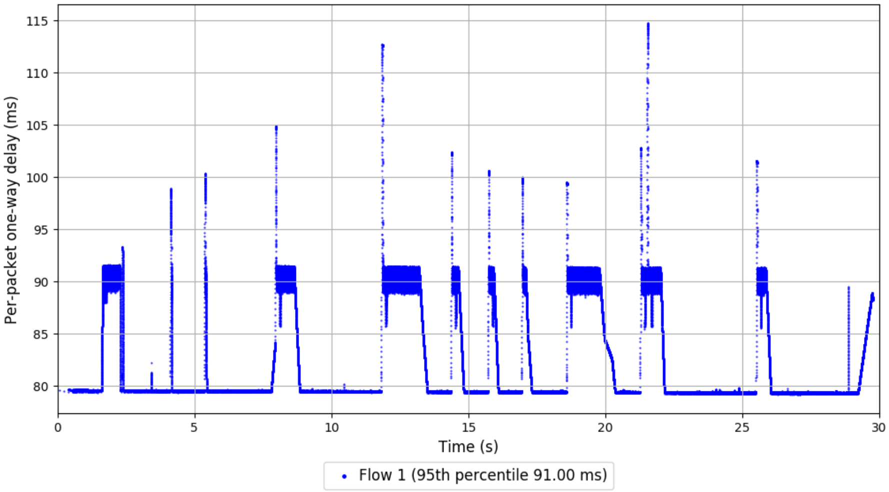
```
Run 7: Statistics of PCC-Allegro

Start at: 2018-06-19 03:49:29
End at: 2018-06-19 03:49:59
Local clock offset: -2.901 ms
Remote clock offset: 13.832 ms

# Below is generated by plot.py at 2018-06-19 04:57:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.90 Mbit/s
95th percentile per-packet one-way delay: 91.002 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 85.90 Mbit/s
95th percentile per-packet one-way delay: 91.002 ms
Loss rate: 0.70%
```

Run 7: Report of PCC-Allegro — Data Link



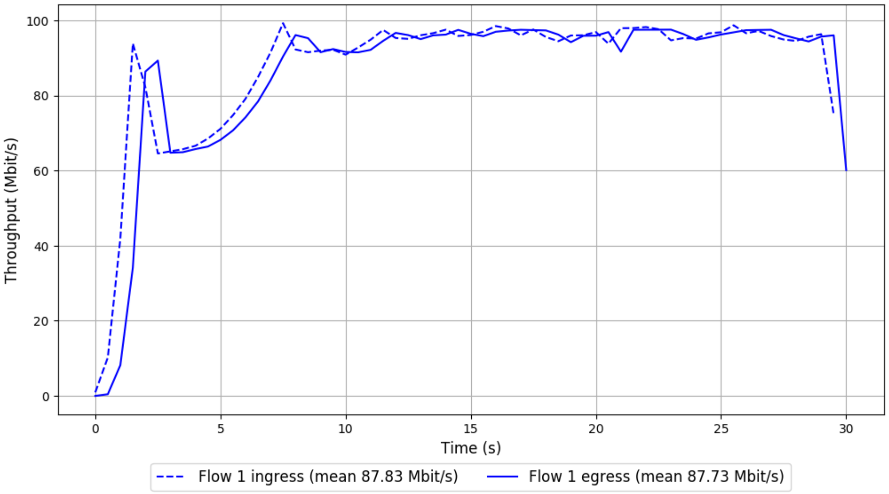


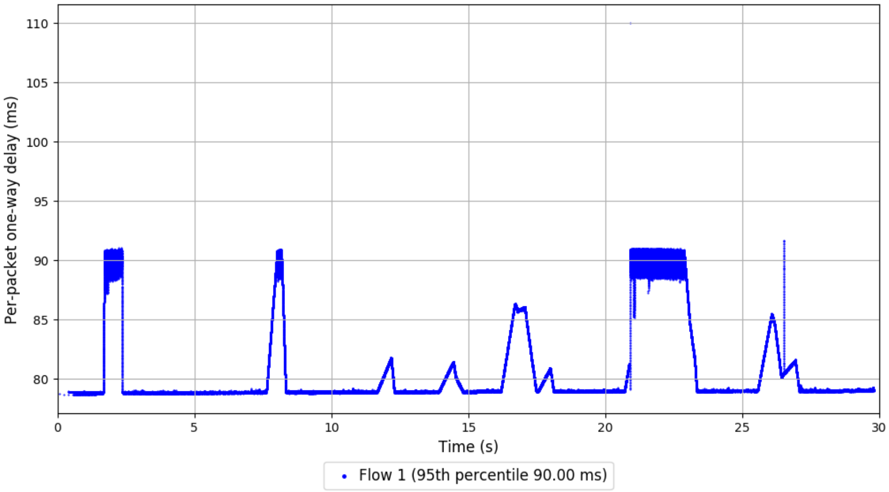
```
Run 8: Statistics of PCC-Allegro

Start at: 2018-06-19 04:08:05
End at: 2018-06-19 04:08:35
Local clock offset: -3.717 ms
Remote clock offset: 9.942 ms

# Below is generated by plot.py at 2018-06-19 04:57:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 87.73 Mbit/s
95th percentile per-packet one-way delay: 90.001 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 87.73 Mbit/s
95th percentile per-packet one-way delay: 90.001 ms
Loss rate: 0.64%
```

Run 8: Report of PCC-Allegro — Data Link



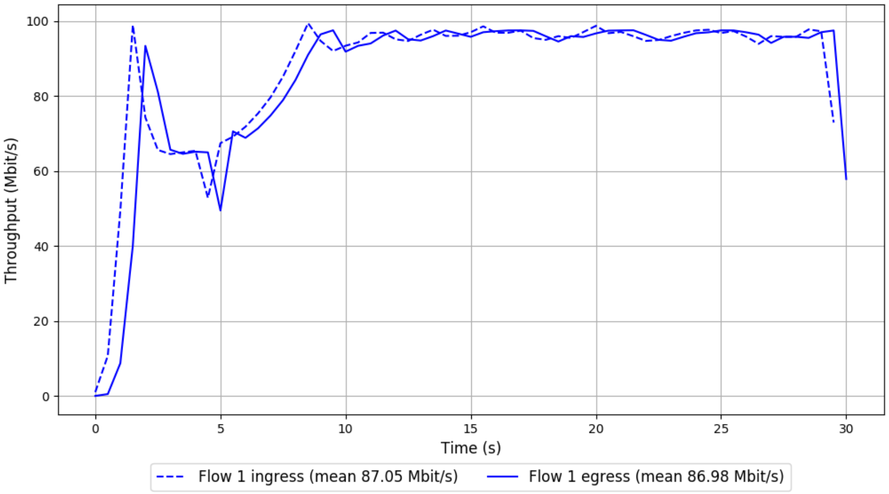


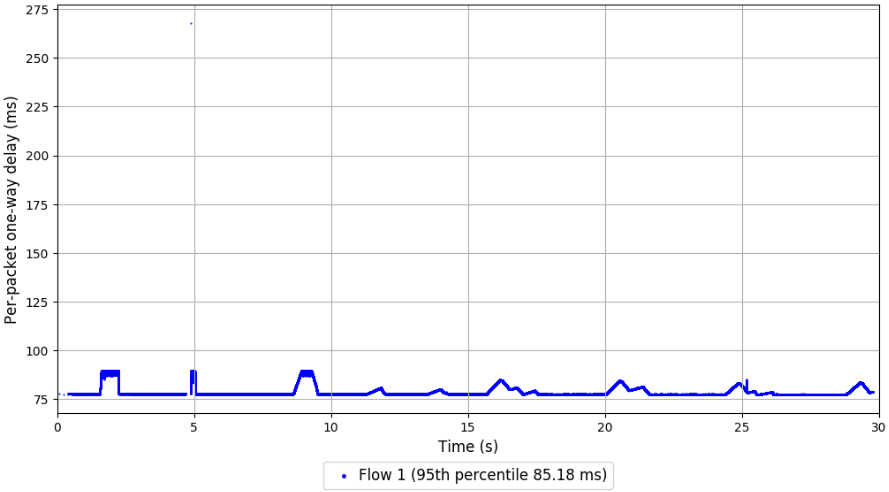
```
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-19 04:26:46
End at: 2018-06-19 04:27:16
Local clock offset: -7.051 ms
Remote clock offset: 8.133 ms

# Below is generated by plot.py at 2018-06-19 04:58:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 85.184 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 86.98 Mbit/s
95th percentile per-packet one-way delay: 85.184 ms
Loss rate: 0.60%
```

Run 9: Report of PCC-Allegro — Data Link



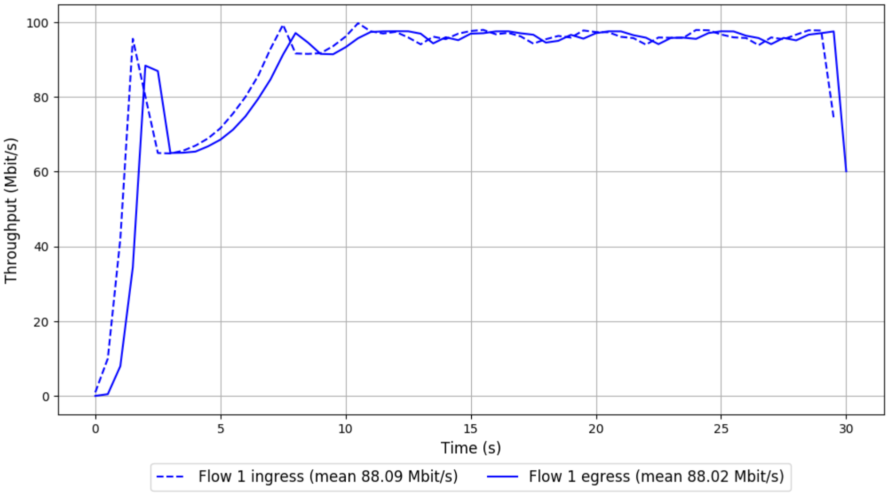


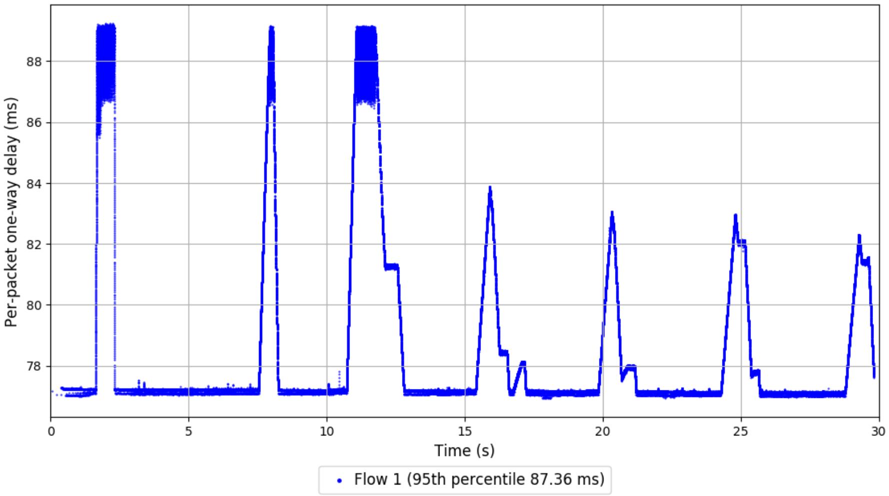
```
Run 10: Statistics of PCC-Allegro

Start at: 2018-06-19 04:45:25
End at: 2018-06-19 04:45:55
Local clock offset: -3.376 ms
Remote clock offset: 4.671 ms

# Below is generated by plot.py at 2018-06-19 04:58:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 87.356 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 88.02 Mbit/s
95th percentile per-packet one-way delay: 87.356 ms
Loss rate: 0.60%
```

Run 10: Report of PCC-Allegro — Data Link



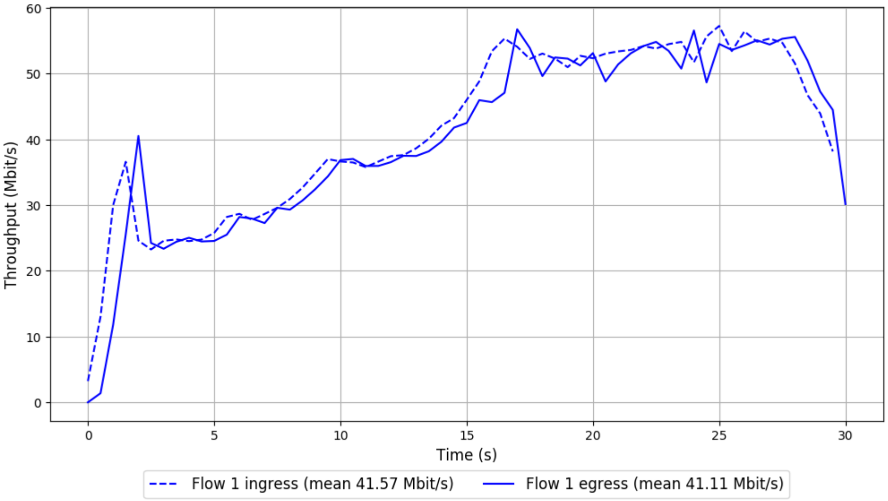


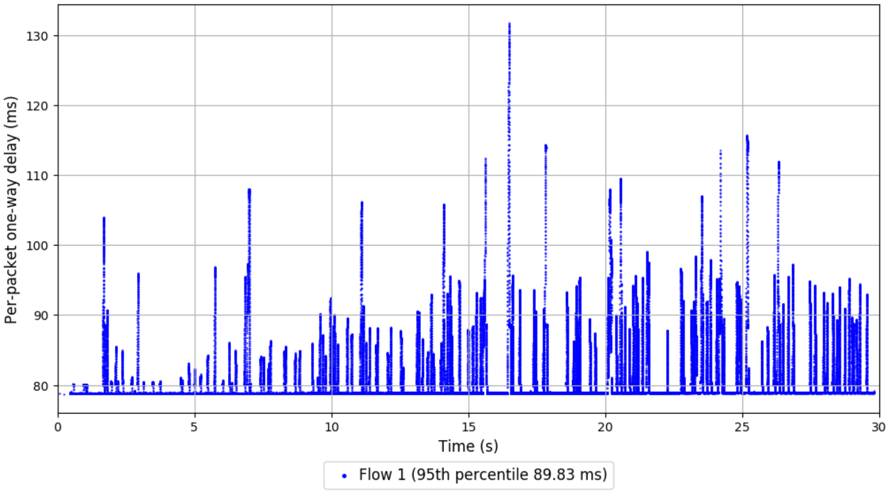
```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 01:51:59
End at: 2018-06-19 01:52:29
Local clock offset: -2.347 ms
Remote clock offset: 10.395 ms

# Below is generated by plot.py at 2018-06-19 04:58:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.11 Mbit/s
95th percentile per-packet one-way delay: 89.826 ms
Loss rate: 1.60%
-- Flow 1:
Average throughput: 41.11 Mbit/s
95th percentile per-packet one-way delay: 89.826 ms
Loss rate: 1.60%
```

Run 1: Report of PCC-Expr — Data Link



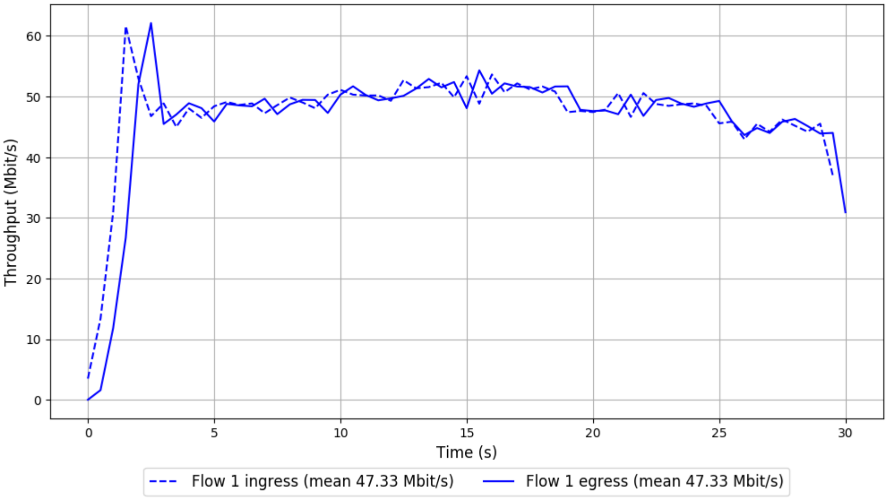


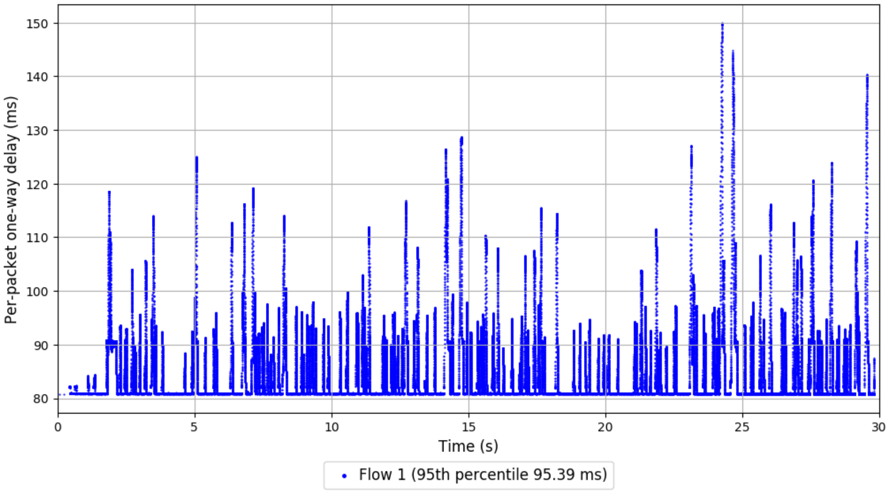
```
Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 02:10:25
End at: 2018-06-19 02:10:55
Local clock offset: -2.061 ms
Remote clock offset: 10.566 ms

# Below is generated by plot.py at 2018-06-19 04:58:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 47.33 Mbit/s
95th percentile per-packet one-way delay: 95.393 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 47.33 Mbit/s
95th percentile per-packet one-way delay: 95.393 ms
Loss rate: 0.54%
```

Run 2: Report of PCC-Expr — Data Link



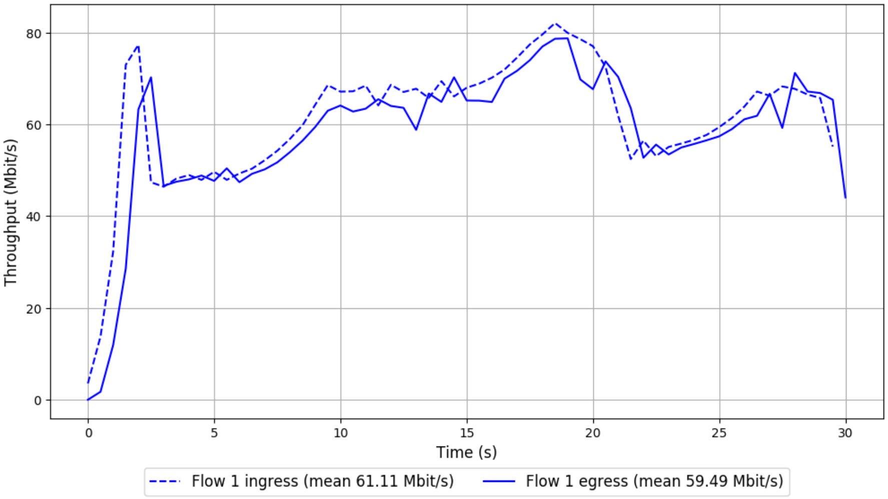


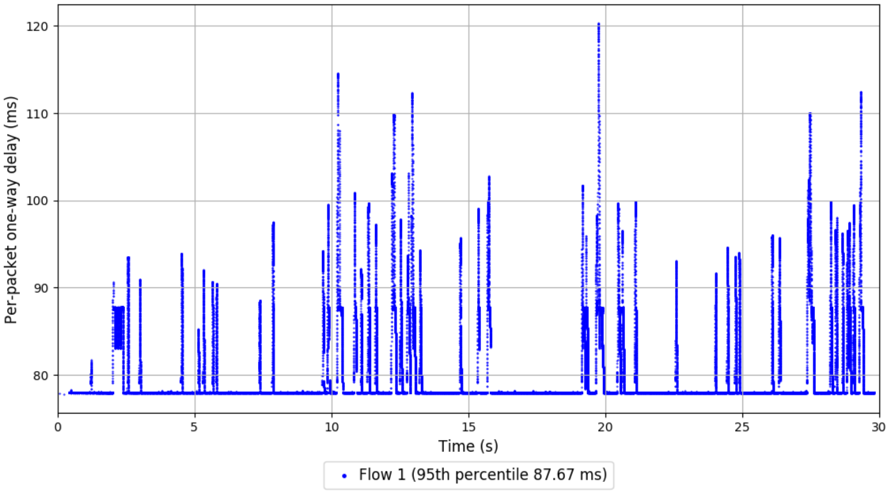
```
Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 02:28:55
End at: 2018-06-19 02:29:25
Local clock offset: -1.793 ms
Remote clock offset: 11.495 ms

# Below is generated by plot.py at 2018-06-19 04:58:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.49 Mbit/s
95th percentile per-packet one-way delay: 87.672 ms
Loss rate: 3.16%
-- Flow 1:
Average throughput: 59.49 Mbit/s
95th percentile per-packet one-way delay: 87.672 ms
Loss rate: 3.16%
```

Run 3: Report of PCC-Expr — Data Link



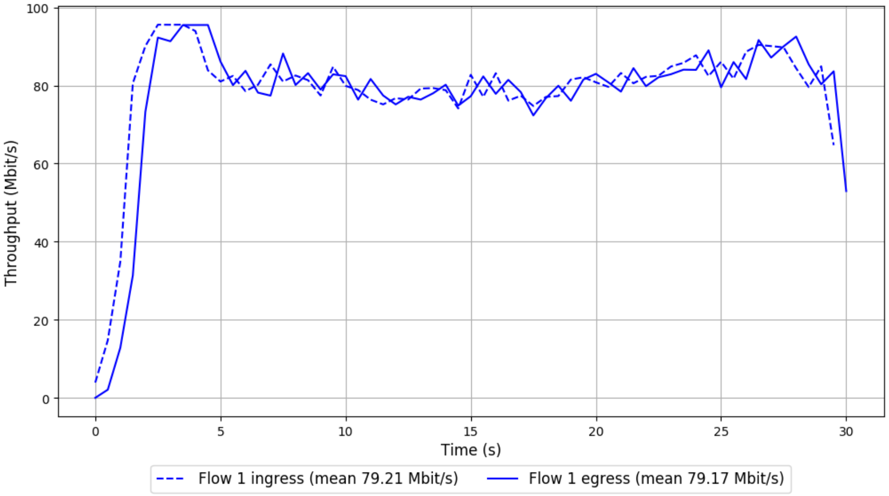


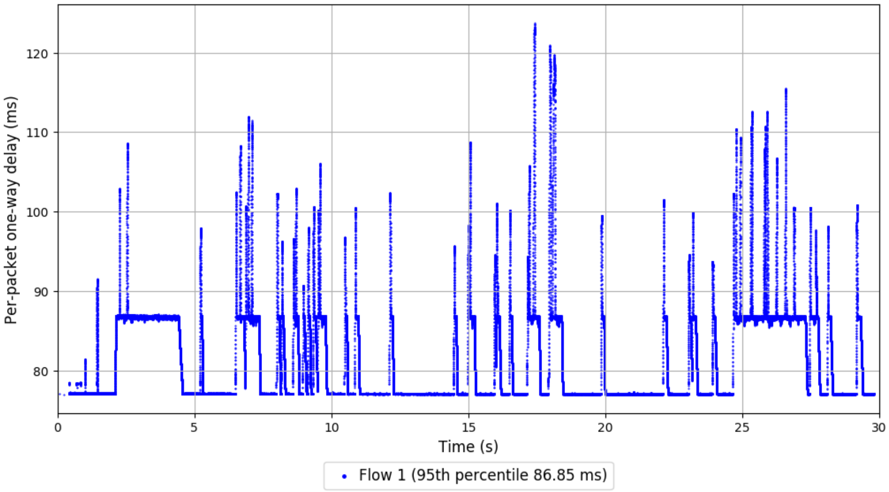
```
Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 02:47:27
End at: 2018-06-19 02:47:57
Local clock offset: -6.249 ms
Remote clock offset: 6.708 ms

# Below is generated by plot.py at 2018-06-19 04:59:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.17 Mbit/s
95th percentile per-packet one-way delay: 86.849 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 79.17 Mbit/s
95th percentile per-packet one-way delay: 86.849 ms
Loss rate: 0.56%
```

Run 4: Report of PCC-Expr — Data Link



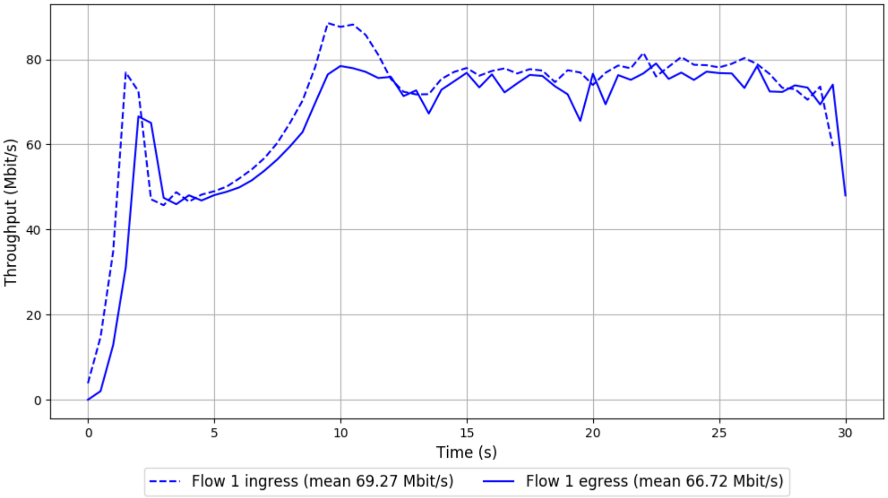


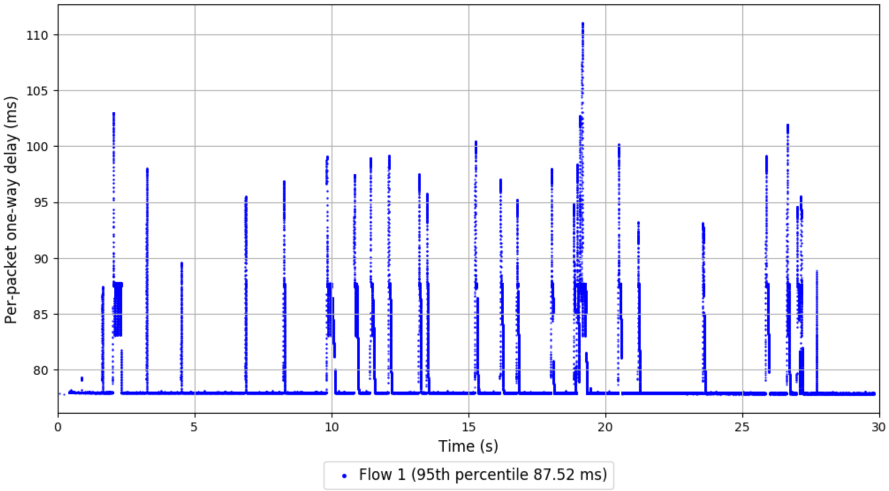
```
Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 03:06:10
End at: 2018-06-19 03:06:40
Local clock offset: -7.81 ms
Remote clock offset: 3.577 ms

# Below is generated by plot.py at 2018-06-19 04:59:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.72 Mbit/s
95th percentile per-packet one-way delay: 87.521 ms
Loss rate: 4.18%
-- Flow 1:
Average throughput: 66.72 Mbit/s
95th percentile per-packet one-way delay: 87.521 ms
Loss rate: 4.18%
```

Run 5: Report of PCC-Expr — Data Link



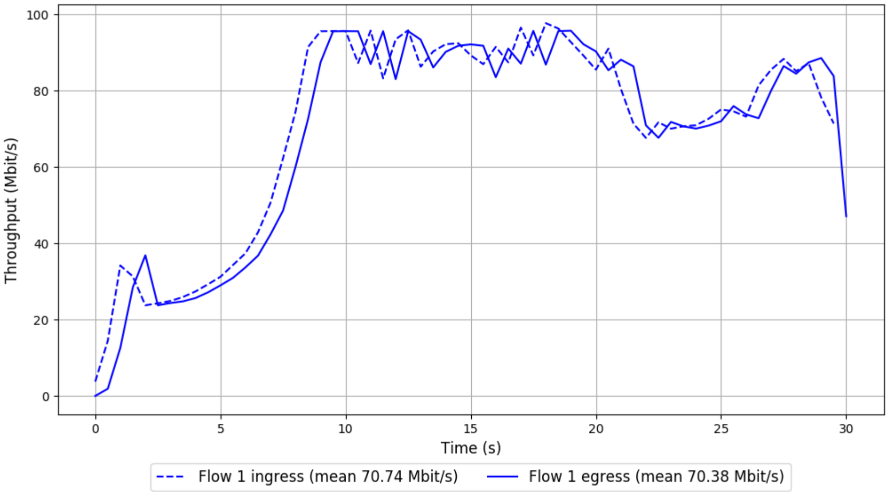


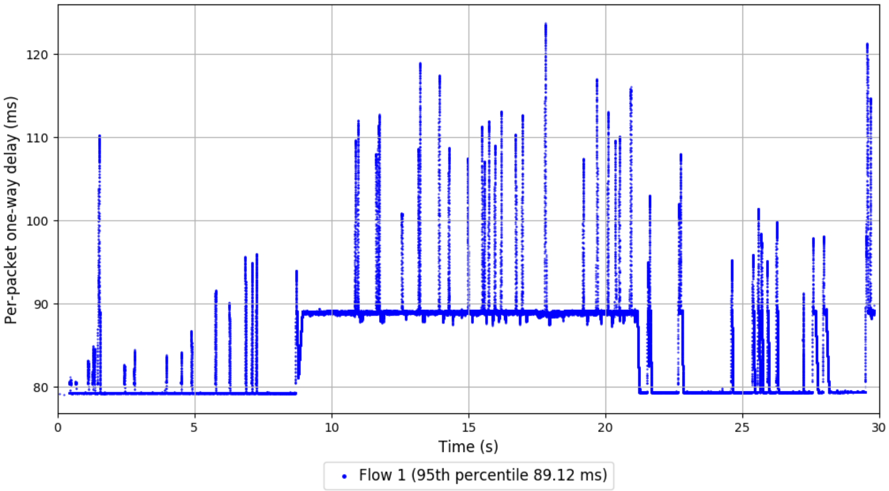
```
Run 6: Statistics of PCC-Expr

Start at: 2018-06-19 03:24:51
End at: 2018-06-19 03:25:21
Local clock offset: -7.577 ms
Remote clock offset: 9.404 ms

# Below is generated by plot.py at 2018-06-19 04:59:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.38 Mbit/s
95th percentile per-packet one-way delay: 89.121 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 70.38 Mbit/s
95th percentile per-packet one-way delay: 89.121 ms
Loss rate: 1.04%
```

Run 6: Report of PCC-Expr — Data Link



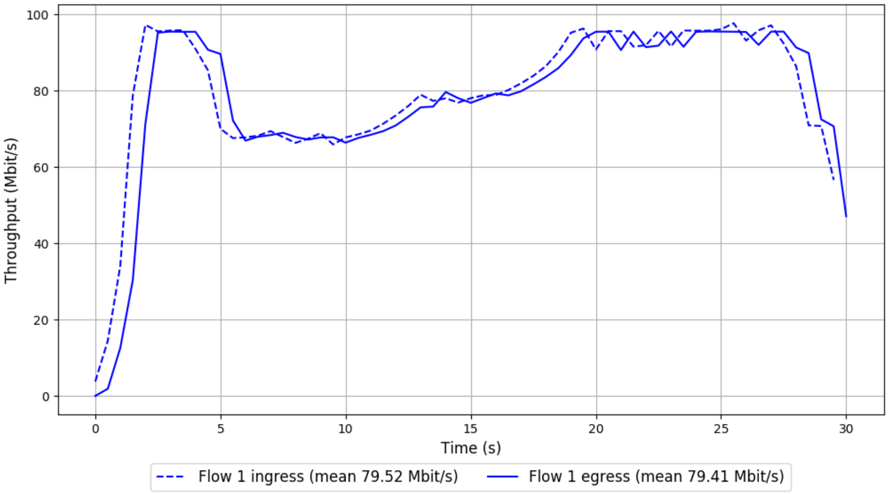


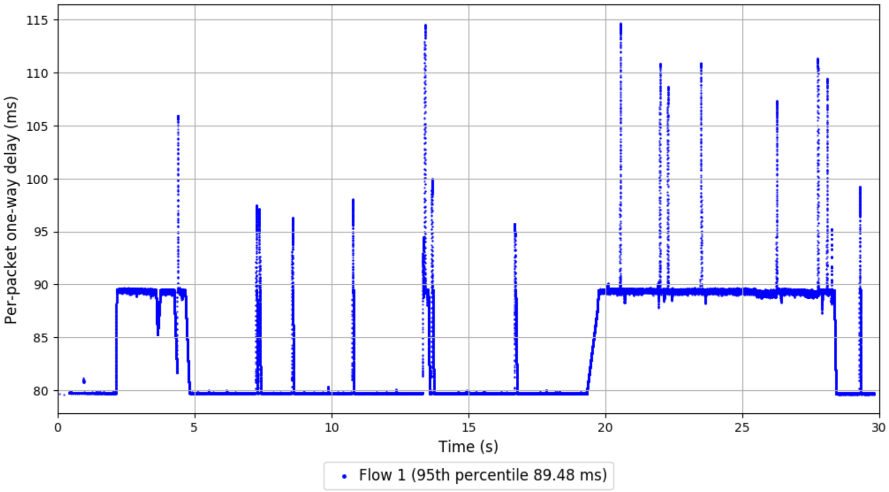
```
Run 7: Statistics of PCC-Expr

Start at: 2018-06-19 03:43:36
End at: 2018-06-19 03:44:06
Local clock offset: -3.938 ms
Remote clock offset: 14.57 ms

# Below is generated by plot.py at 2018-06-19 04:59:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 79.41 Mbit/s
95th percentile per-packet one-way delay: 89.482 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 79.41 Mbit/s
95th percentile per-packet one-way delay: 89.482 ms
Loss rate: 0.66%
```

Run 7: Report of PCC-Expr — Data Link



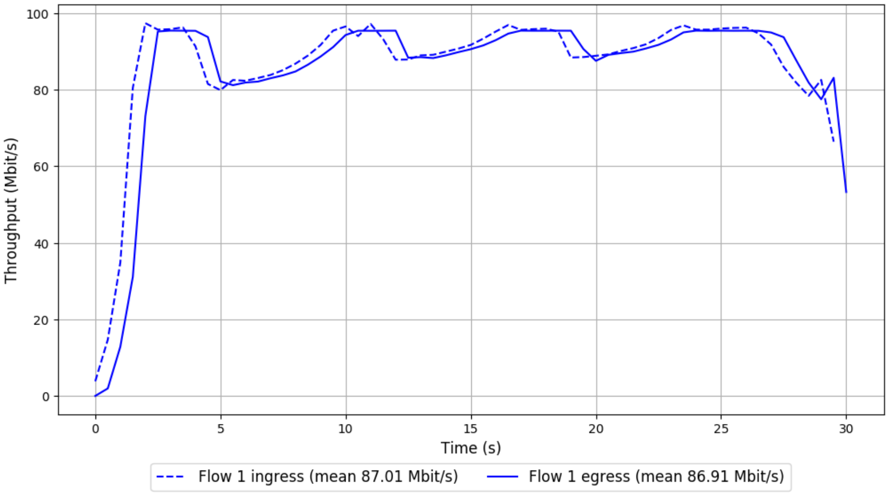


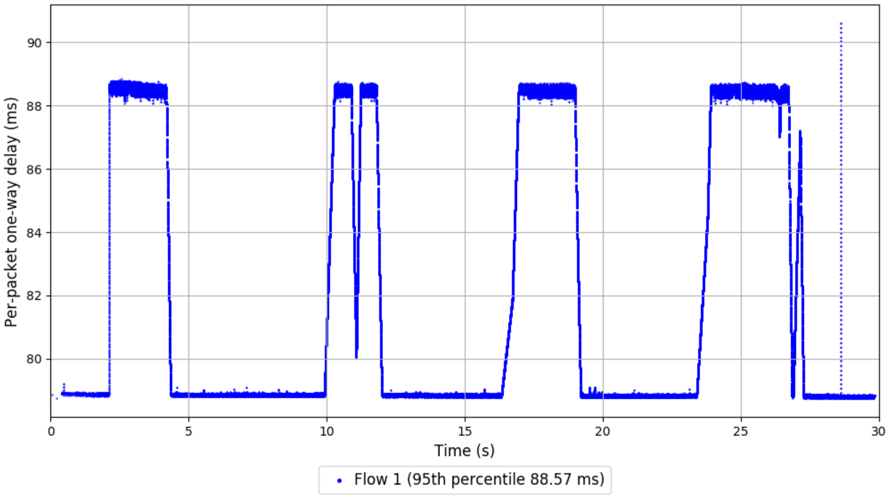
```
Run 8: Statistics of PCC-Expr

Start at: 2018-06-19 04:02:13
End at: 2018-06-19 04:02:43
Local clock offset: -1.776 ms
Remote clock offset: 12.597 ms

# Below is generated by plot.py at 2018-06-19 04:59:57
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.91 Mbit/s
95th percentile per-packet one-way delay: 88.567 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 86.91 Mbit/s
95th percentile per-packet one-way delay: 88.567 ms
Loss rate: 0.65%
```

Run 8: Report of PCC-Expr — Data Link



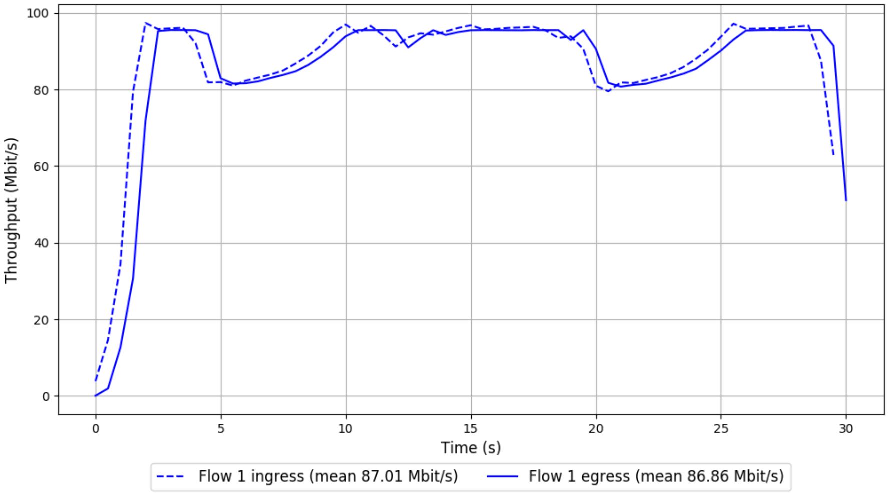


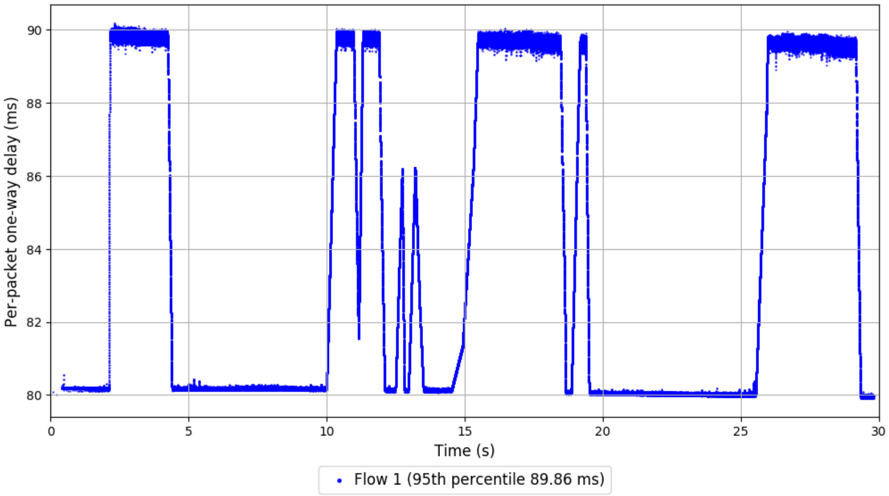
```
Run 9: Statistics of PCC-Expr

Start at: 2018-06-19 04:20:52
End at: 2018-06-19 04:21:22
Local clock offset: -6.468 ms
Remote clock offset: 11.42 ms

# Below is generated by plot.py at 2018-06-19 05:00:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 86.86 Mbit/s
95th percentile per-packet one-way delay: 89.858 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 86.86 Mbit/s
95th percentile per-packet one-way delay: 89.858 ms
Loss rate: 0.69%
```

Run 9: Report of PCC-Expr — Data Link



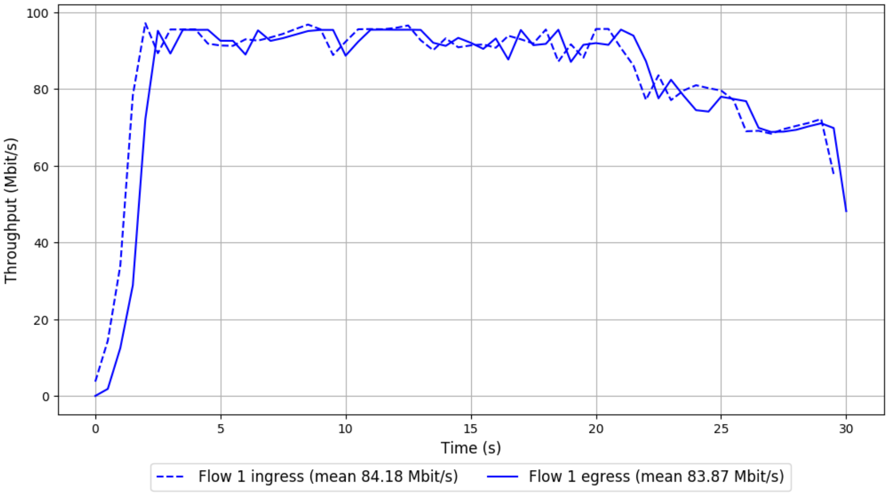


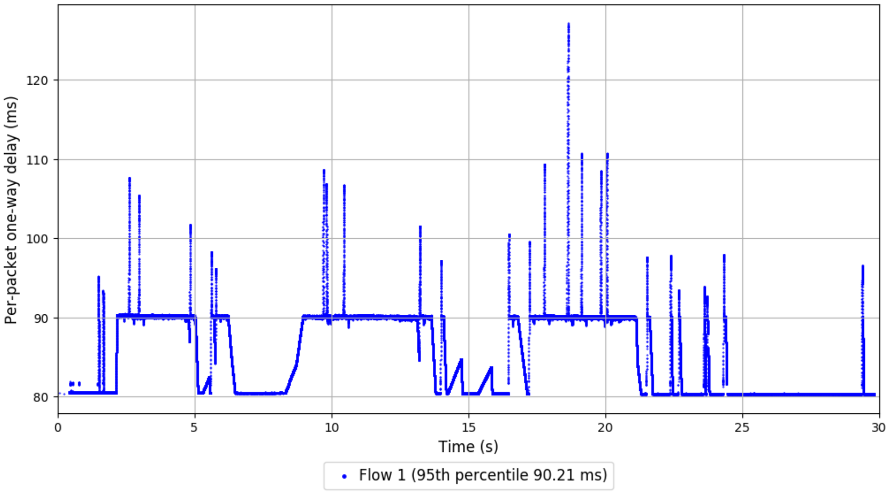
```
Run 10: Statistics of PCC-Expr

Start at: 2018-06-19 04:39:31
End at: 2018-06-19 04:40:01
Local clock offset: -4.852 ms
Remote clock offset: 4.221 ms

# Below is generated by plot.py at 2018-06-19 05:00:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.87 Mbit/s
95th percentile per-packet one-way delay: 90.208 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 83.87 Mbit/s
95th percentile per-packet one-way delay: 90.208 ms
Loss rate: 0.89%
```

Run 10: Report of PCC-Expr — Data Link



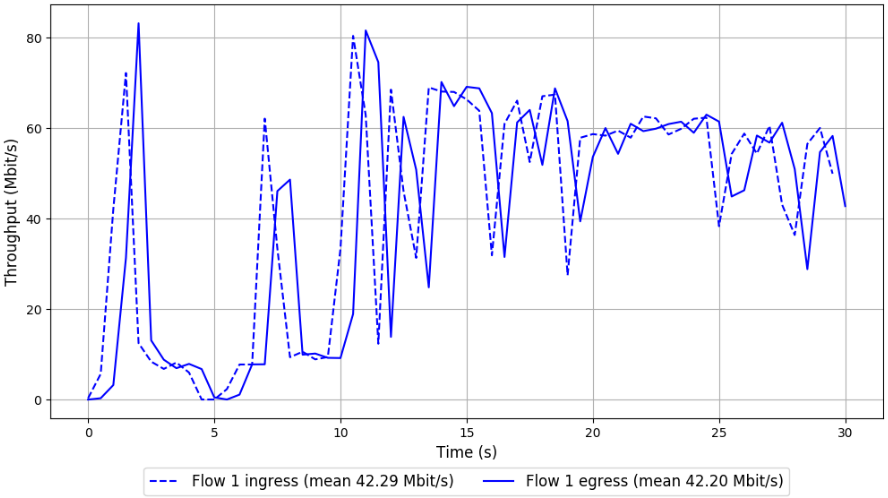


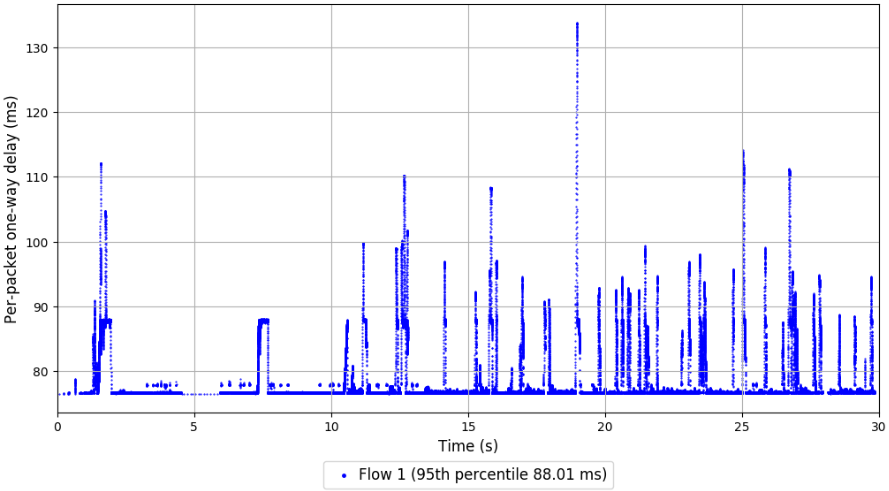
```
Run 1: Statistics of QUIC Cubic

Start at: 2018-06-19 01:58:55
End at: 2018-06-19 01:59:25
Local clock offset: -2.345 ms
Remote clock offset: 13.497 ms

# Below is generated by plot.py at 2018-06-19 05:00:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.20 Mbit/s
95th percentile per-packet one-way delay: 88.009 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 42.20 Mbit/s
95th percentile per-packet one-way delay: 88.009 ms
Loss rate: 0.74%
```

Run 1: Report of QUIC Cubic — Data Link



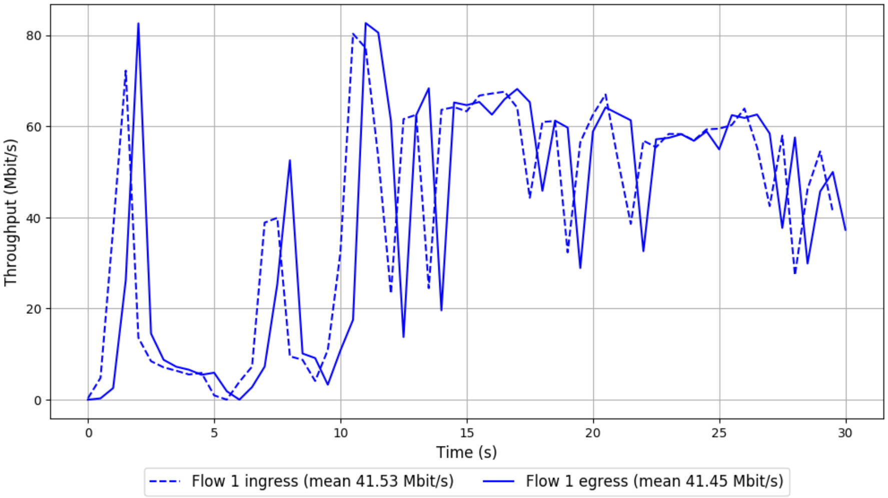


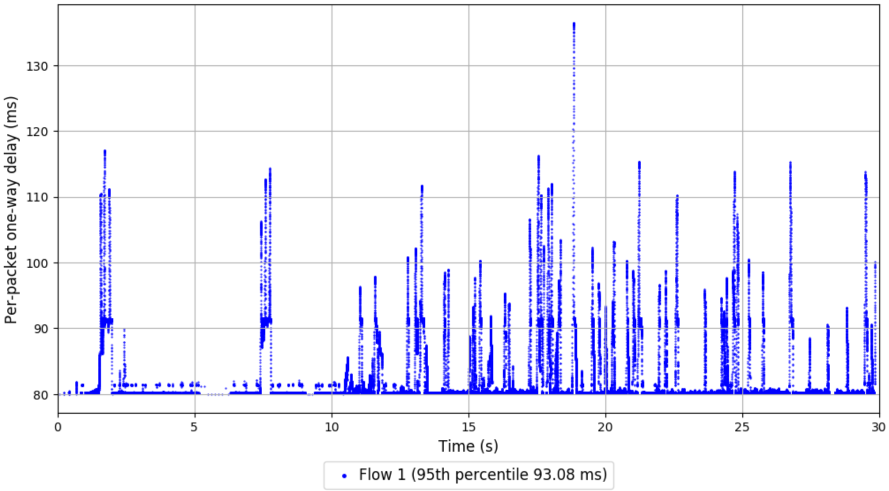
```
Run 2: Statistics of QUIC Cubic

Start at: 2018-06-19 02:17:20
End at: 2018-06-19 02:17:50
Local clock offset: -1.919 ms
Remote clock offset: 11.271 ms

# Below is generated by plot.py at 2018-06-19 05:00:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 93.077 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 93.077 ms
Loss rate: 0.73%
```

Run 2: Report of QUIC Cubic — Data Link



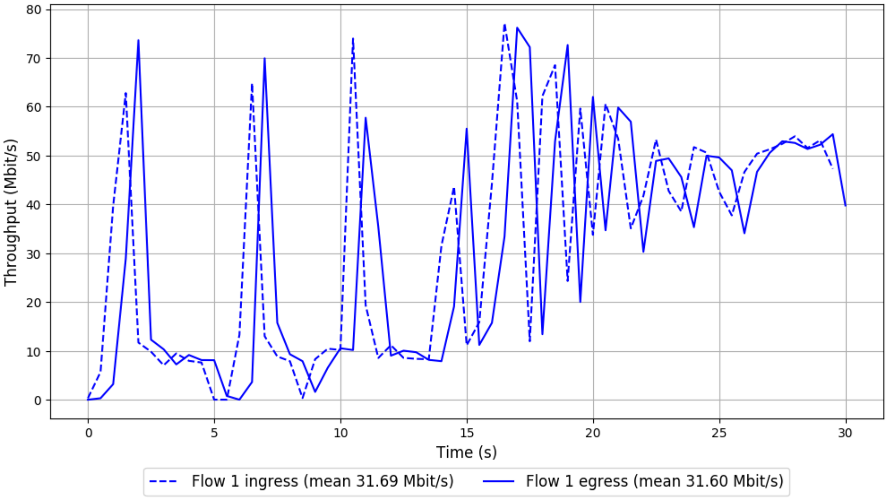


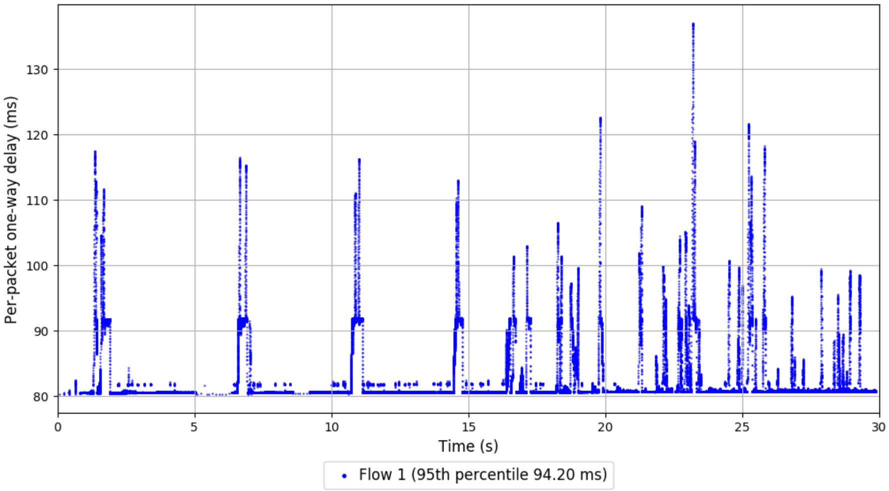
```
Run 3: Statistics of QUIC Cubic

Start at: 2018-06-19 02:35:54
End at: 2018-06-19 02:36:24
Local clock offset: -2.847 ms
Remote clock offset: 11.606 ms

# Below is generated by plot.py at 2018-06-19 05:00:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 94.198 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 31.60 Mbit/s
95th percentile per-packet one-way delay: 94.198 ms
Loss rate: 0.82%
```

Run 3: Report of QUIC Cubic — Data Link



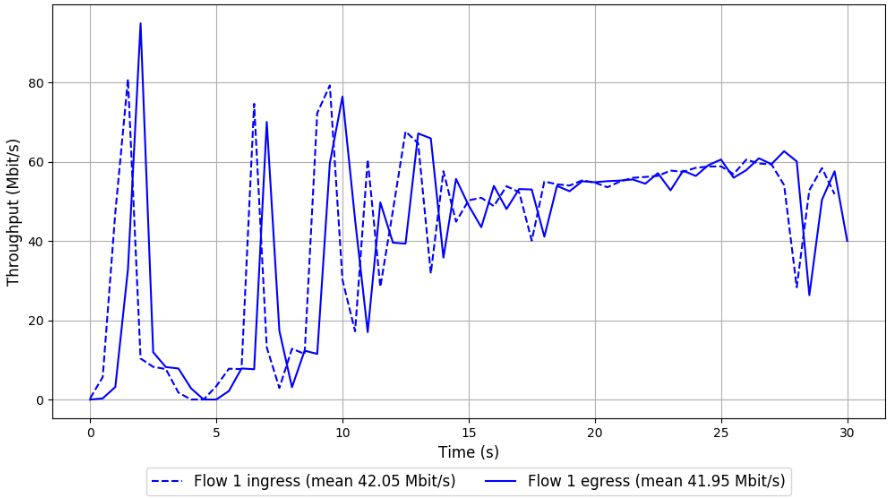


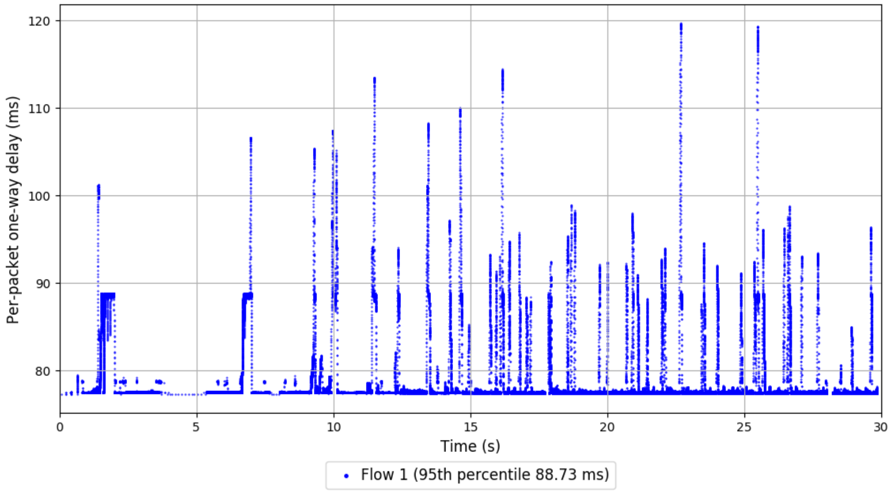
```
Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 02:54:30
End at: 2018-06-19 02:55:00
Local clock offset: -7.164 ms
Remote clock offset: 4.921 ms

# Below is generated by plot.py at 2018-06-19 05:00:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.95 Mbit/s
95th percentile per-packet one-way delay: 88.735 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 41.95 Mbit/s
95th percentile per-packet one-way delay: 88.735 ms
Loss rate: 0.76%
```

Run 4: Report of QUIC Cubic — Data Link



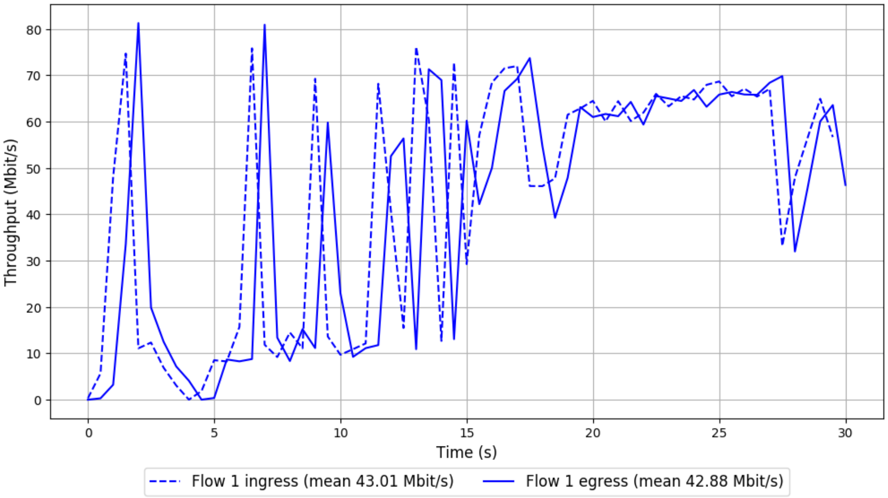


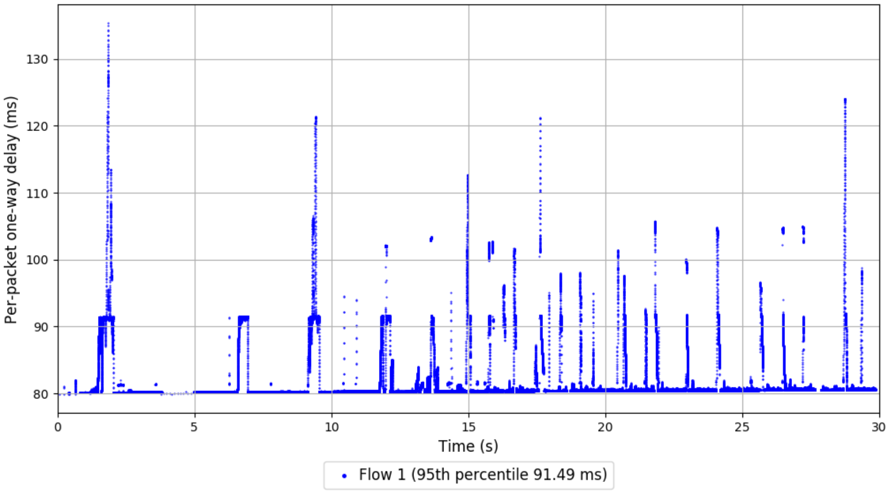
```
Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 03:13:15
End at: 2018-06-19 03:13:45
Local clock offset: -7.459 ms
Remote clock offset: 3.337 ms

# Below is generated by plot.py at 2018-06-19 05:00:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 42.88 Mbit/s
95th percentile per-packet one-way delay: 91.486 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 42.88 Mbit/s
95th percentile per-packet one-way delay: 91.486 ms
Loss rate: 0.80%
```

Run 5: Report of QUIC Cubic — Data Link



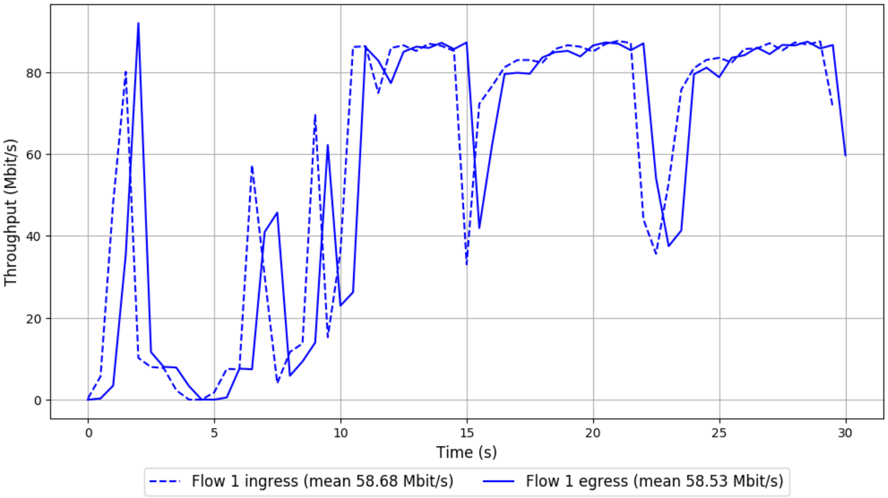


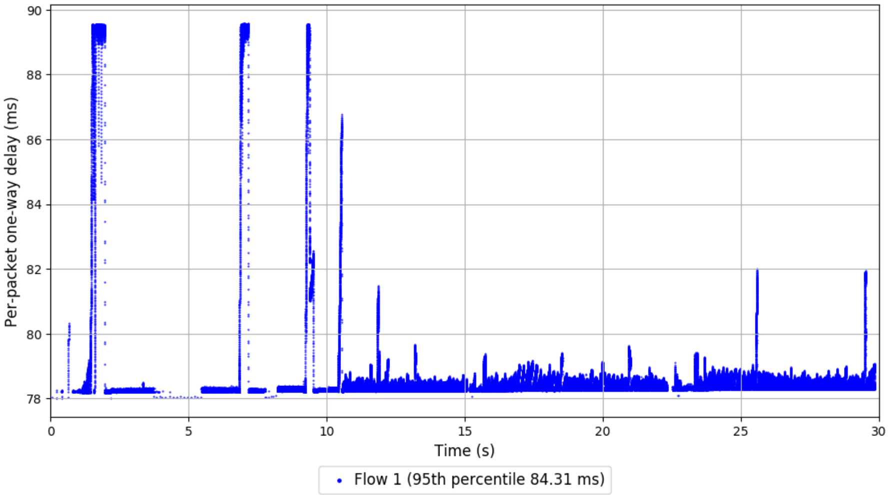
```
Run 6: Statistics of QUIC Cubic

Start at: 2018-06-19 03:31:58
End at: 2018-06-19 03:32:28
Local clock offset: -7.788 ms
Remote clock offset: 11.422 ms

# Below is generated by plot.py at 2018-06-19 05:00:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.53 Mbit/s
95th percentile per-packet one-way delay: 84.308 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 58.53 Mbit/s
95th percentile per-packet one-way delay: 84.308 ms
Loss rate: 0.77%
```

Run 6: Report of QUIC Cubic — Data Link



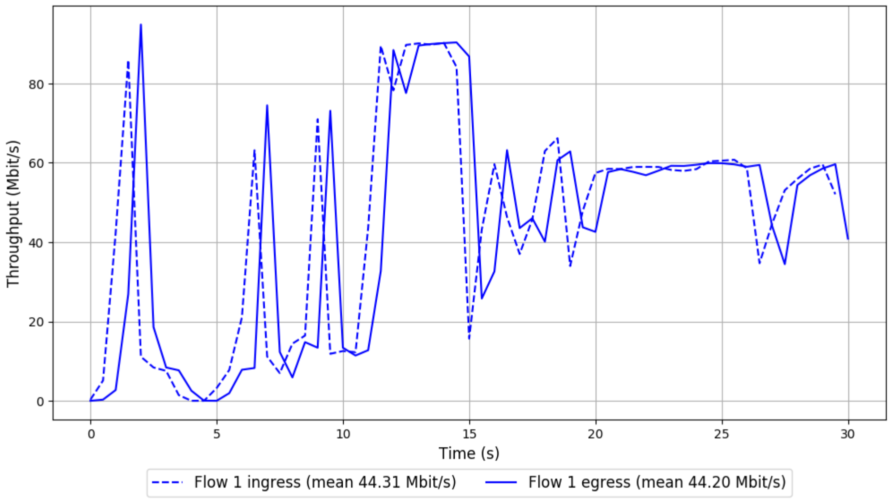


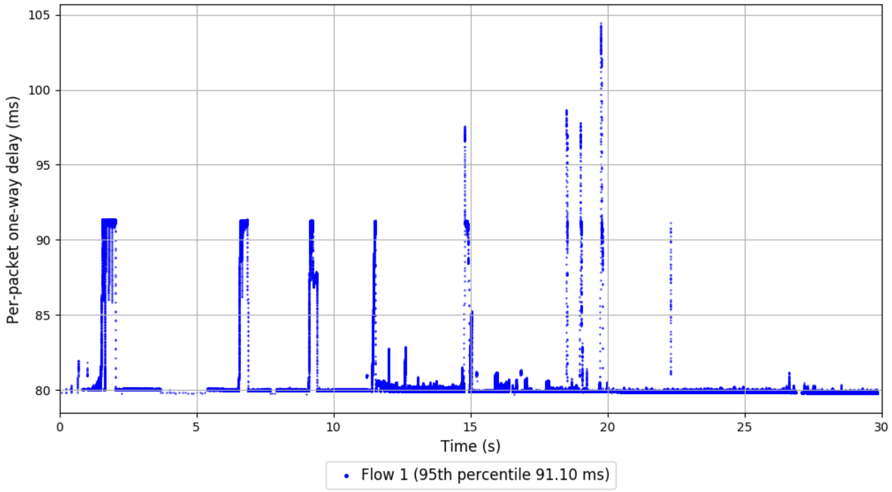
```
Run 7: Statistics of QUIC Cubic

Start at: 2018-06-19 03:50:38
End at: 2018-06-19 03:51:08
Local clock offset: -2.72 ms
Remote clock offset: 13.427 ms

# Below is generated by plot.py at 2018-06-19 05:00:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.20 Mbit/s
95th percentile per-packet one-way delay: 91.096 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 44.20 Mbit/s
95th percentile per-packet one-way delay: 91.096 ms
Loss rate: 0.78%
```

Run 7: Report of QUIC Cubic — Data Link



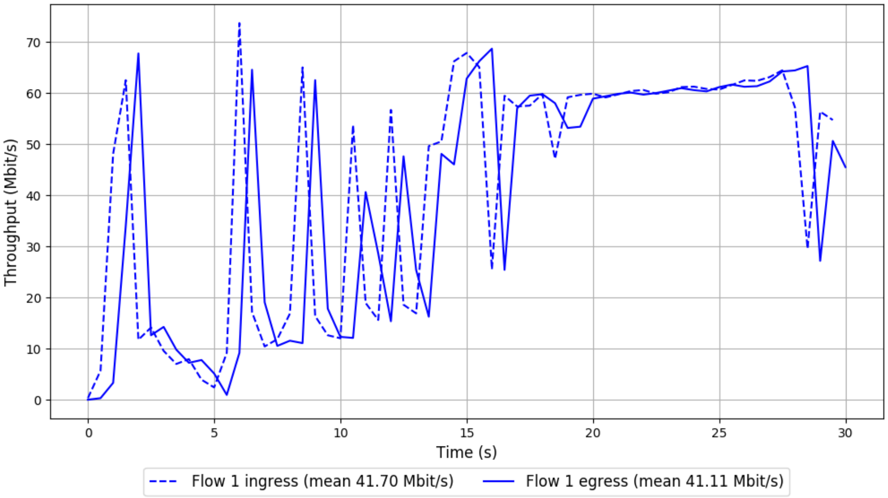


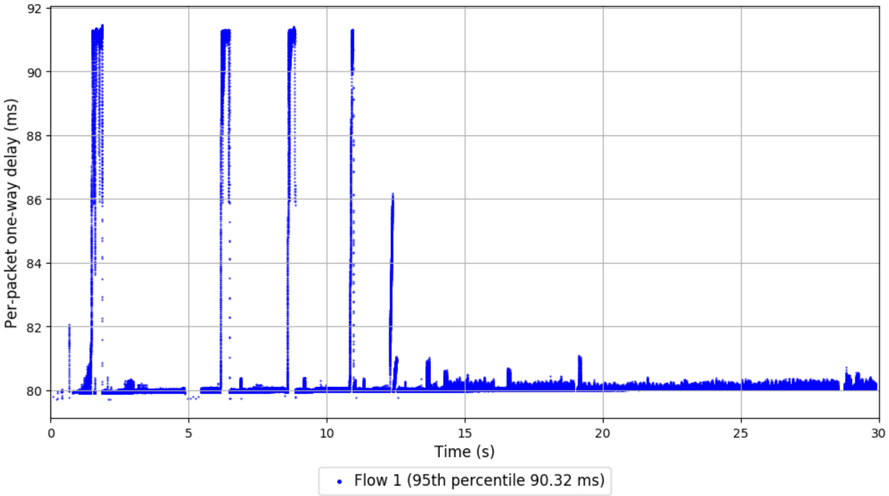
```
Run 8: Statistics of QUIC Cubic

Start at: 2018-06-19 04:09:15
End at: 2018-06-19 04:09:45
Local clock offset: -4.131 ms
Remote clock offset: 11.012 ms

# Below is generated by plot.py at 2018-06-19 05:00:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.11 Mbit/s
95th percentile per-packet one-way delay: 90.320 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 41.11 Mbit/s
95th percentile per-packet one-way delay: 90.320 ms
Loss rate: 1.94%
```

Run 8: Report of QUIC Cubic — Data Link



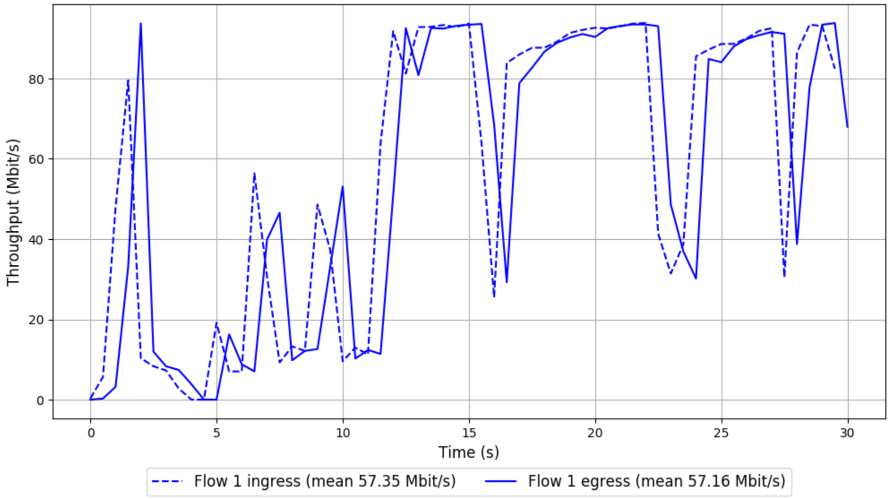


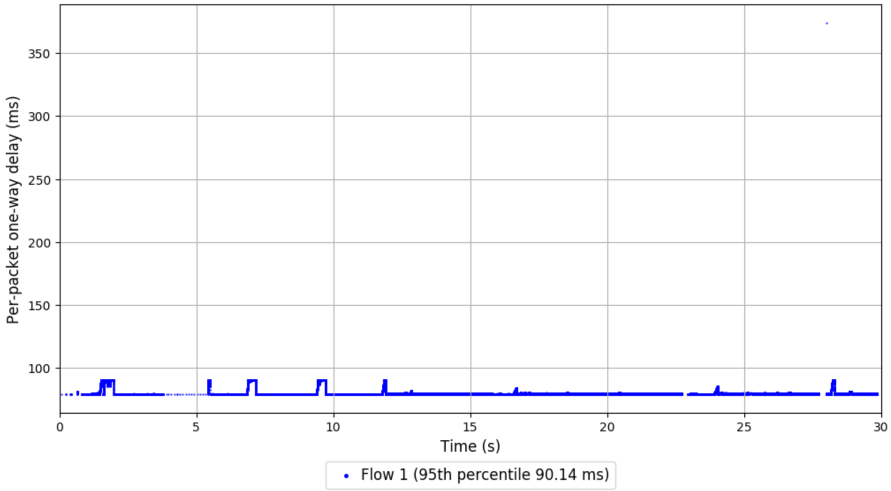
```
Run 9: Statistics of QUIC Cubic

Start at: 2018-06-19 04:27:56
End at: 2018-06-19 04:28:26
Local clock offset: -7.191 ms
Remote clock offset: 7.856 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 57.16 Mbit/s
95th percentile per-packet one-way delay: 90.141 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 57.16 Mbit/s
95th percentile per-packet one-way delay: 90.141 ms
Loss rate: 0.86%
```

Run 9: Report of QUIC Cubic — Data Link



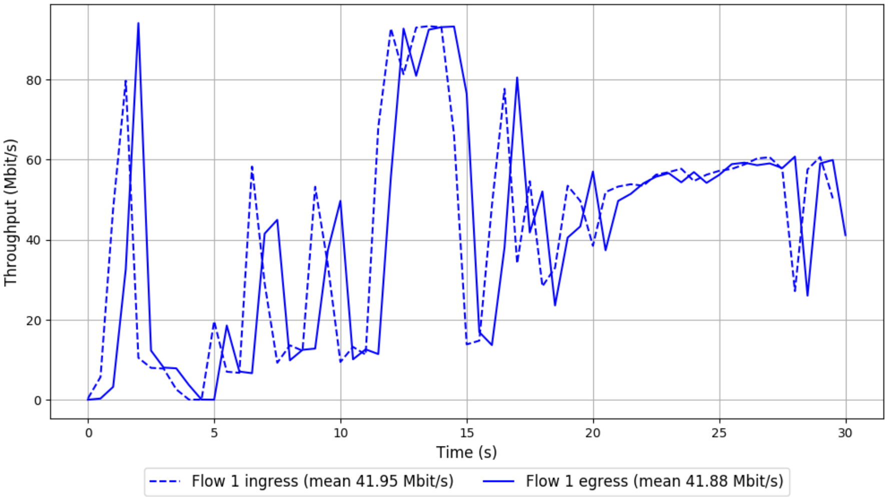


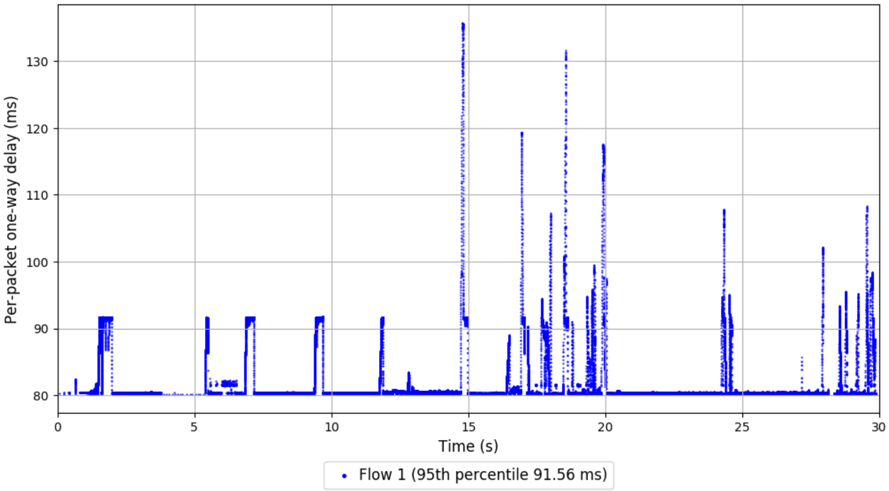
```
Run 10: Statistics of QUIC Cubic

Start at: 2018-06-19 04:46:35
End at: 2018-06-19 04:47:05
Local clock offset: -3.233 ms
Remote clock offset: 3.59 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.88 Mbit/s
95th percentile per-packet one-way delay: 91.565 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 41.88 Mbit/s
95th percentile per-packet one-way delay: 91.565 ms
Loss rate: 0.75%
```

Run 10: Report of QUIC Cubic — Data Link



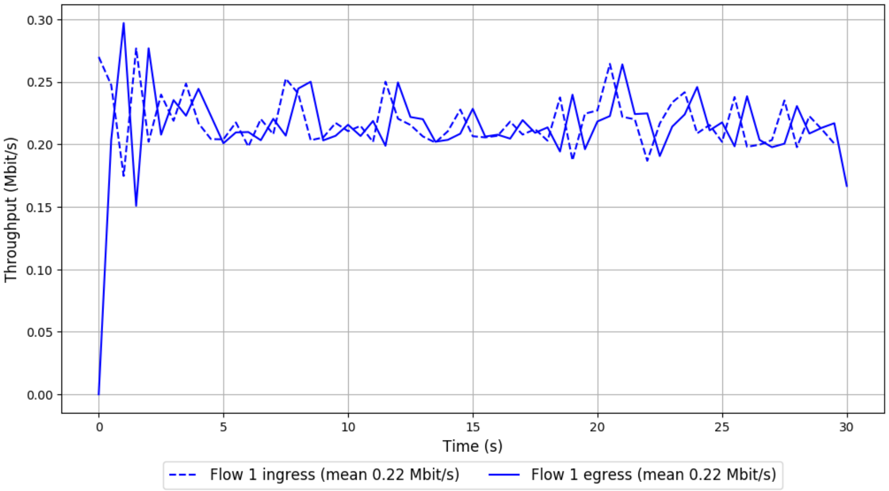


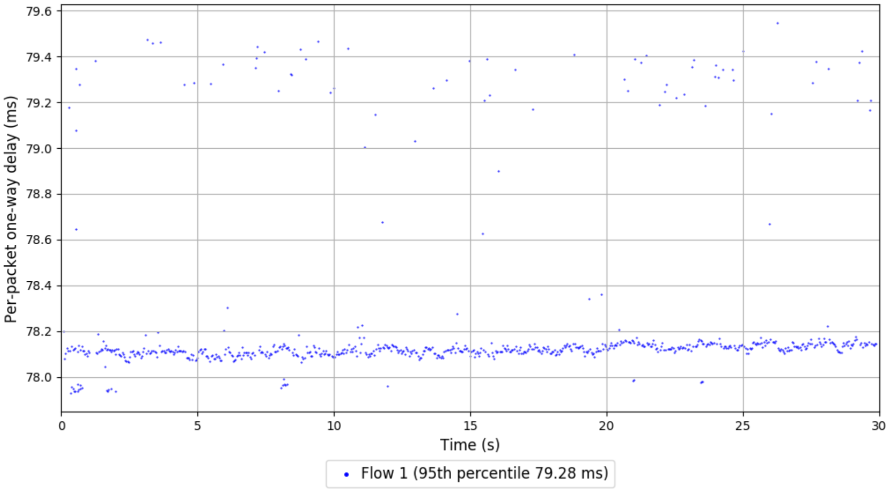
```
Run 1: Statistics of SCReAM

Start at: 2018-06-19 01:53:09
End at: 2018-06-19 01:53:39
Local clock offset: -2.352 ms
Remote clock offset: 10.645 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.285 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.285 ms
Loss rate: 0.51%
```

Run 1: Report of SCReAM — Data Link



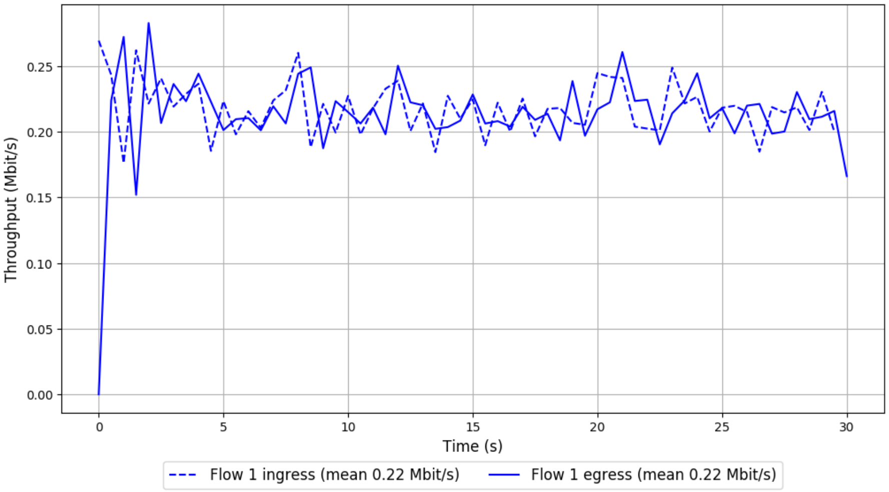


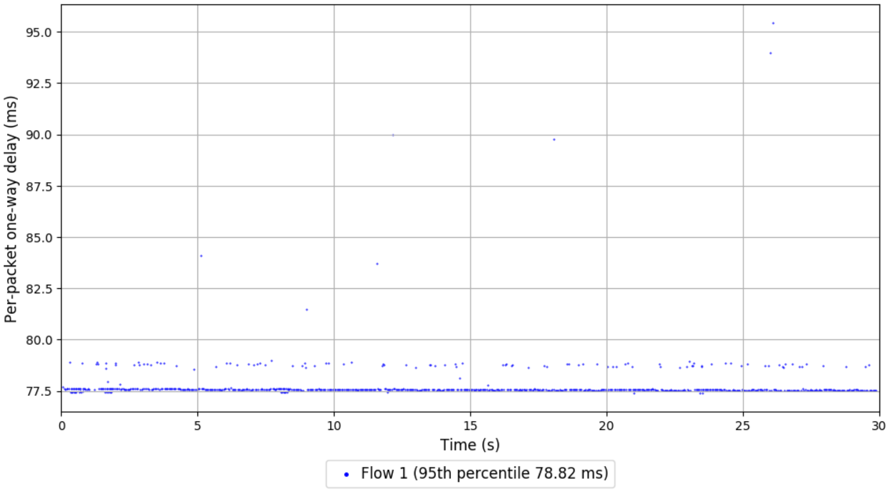
```
Run 2: Statistics of SCReAM

Start at: 2018-06-19 02:11:36
End at: 2018-06-19 02:12:06
Local clock offset: -2.023 ms
Remote clock offset: 11.538 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.816 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.816 ms
Loss rate: 0.51%
```

Run 2: Report of SCReAM — Data Link



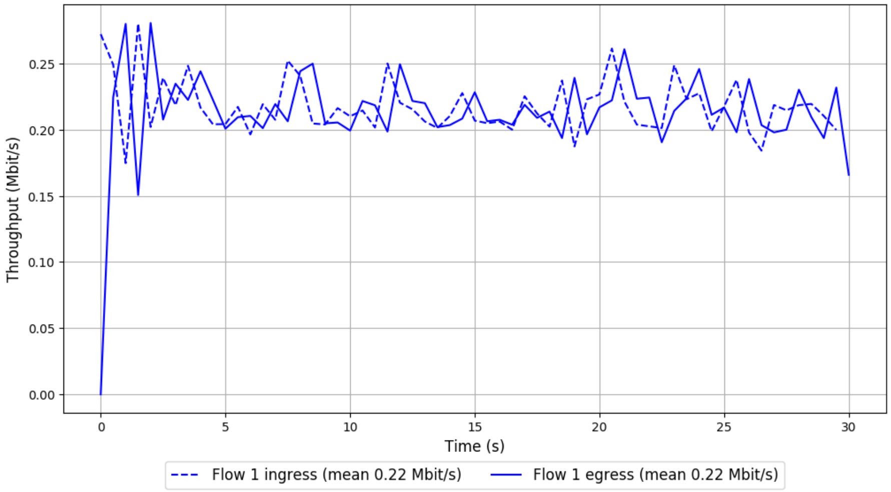


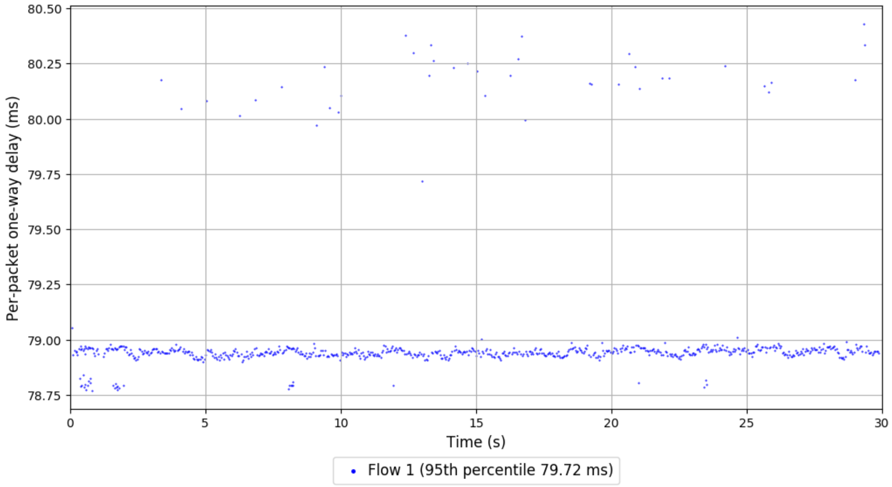
```
Run 3: Statistics of SCReAM

Start at: 2018-06-19 02:30:07
End at: 2018-06-19 02:30:37
Local clock offset: -1.861 ms
Remote clock offset: 10.425 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.720 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.720 ms
Loss rate: 0.51%
```

Run 3: Report of SCReAM — Data Link



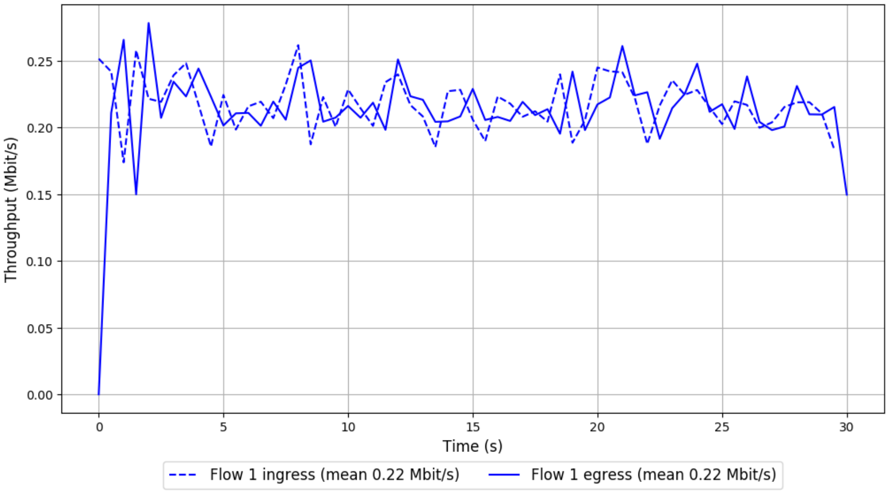


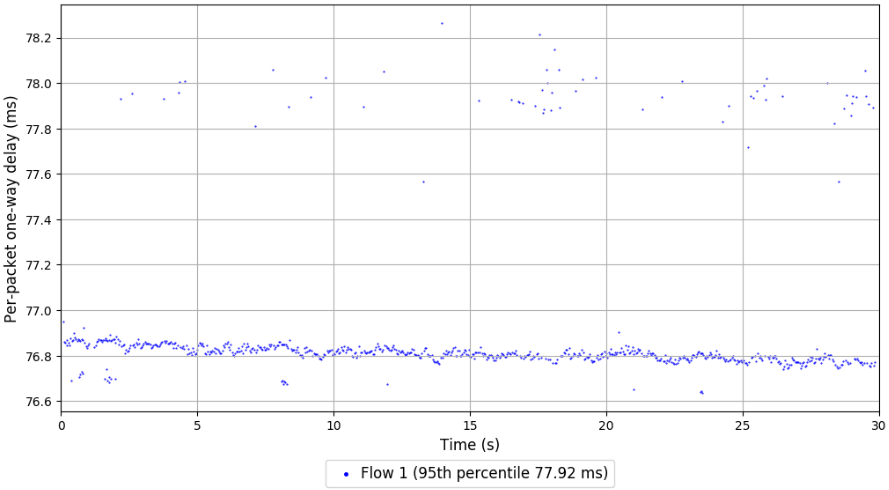
```
Run 4: Statistics of SCReAM

Start at: 2018-06-19 02:48:42
End at: 2018-06-19 02:49:12
Local clock offset: -6.436 ms
Remote clock offset: 6.557 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.921 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 77.921 ms
Loss rate: 0.51%
```

Run 4: Report of SCReAM — Data Link



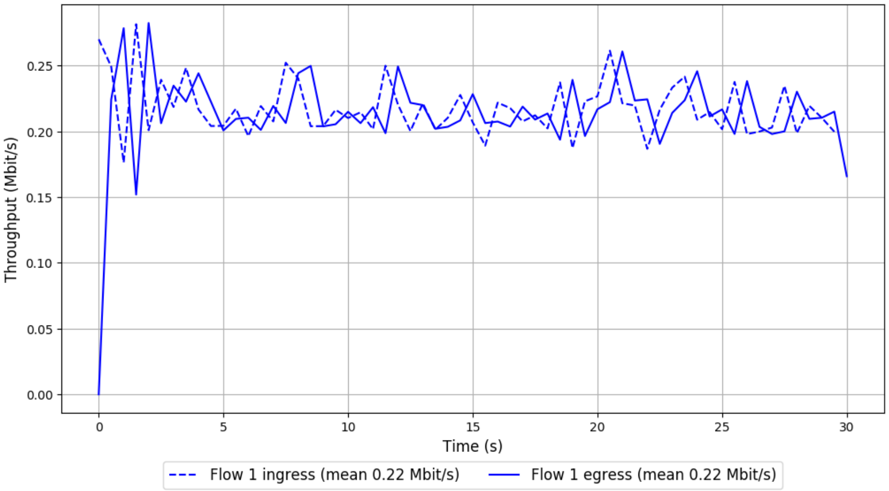


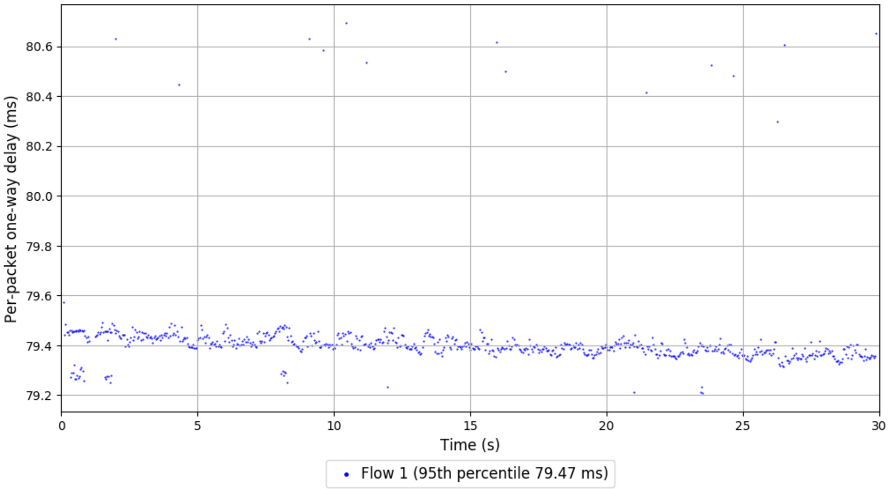
```
Run 5: Statistics of SCReAM

Start at: 2018-06-19 03:07:24
End at: 2018-06-19 03:07:54
Local clock offset: -7.784 ms
Remote clock offset: 3.447 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.465 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.465 ms
Loss rate: 0.51%
```

Run 5: Report of SCReAM — Data Link



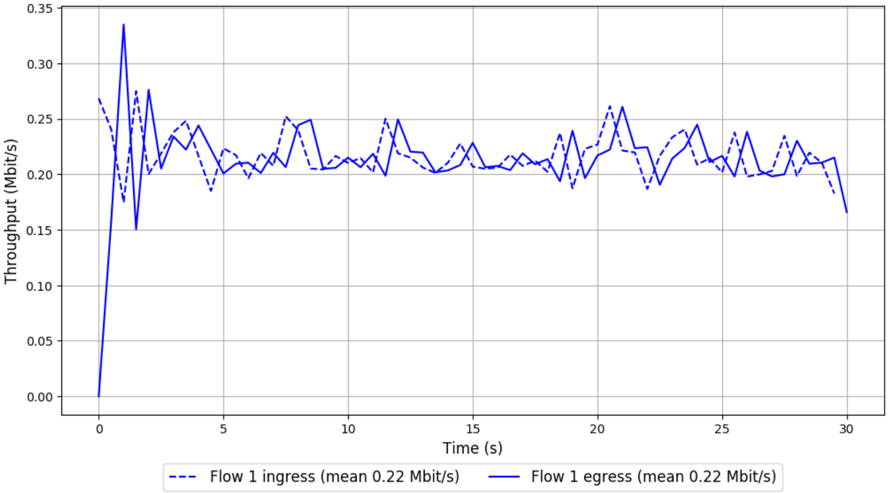


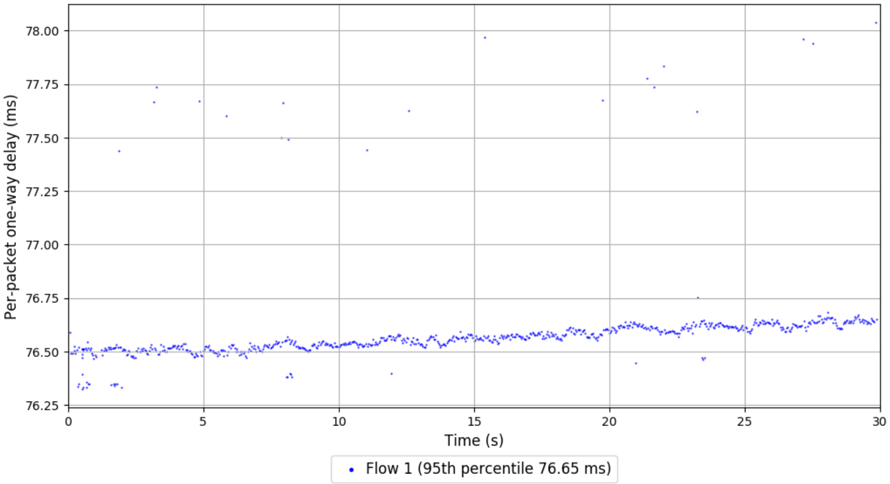
```
Run 6: Statistics of SCReAM

Start at: 2018-06-19 03:26:05
End at: 2018-06-19 03:26:35
Local clock offset: -7.605 ms
Remote clock offset: 11.979 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 76.650 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 76.650 ms
Loss rate: 0.38%
```

Run 6: Report of SCReAM — Data Link



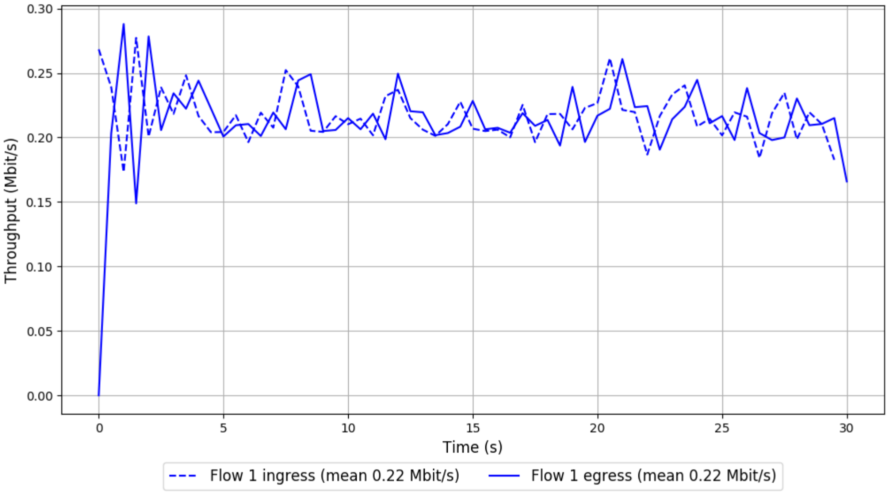


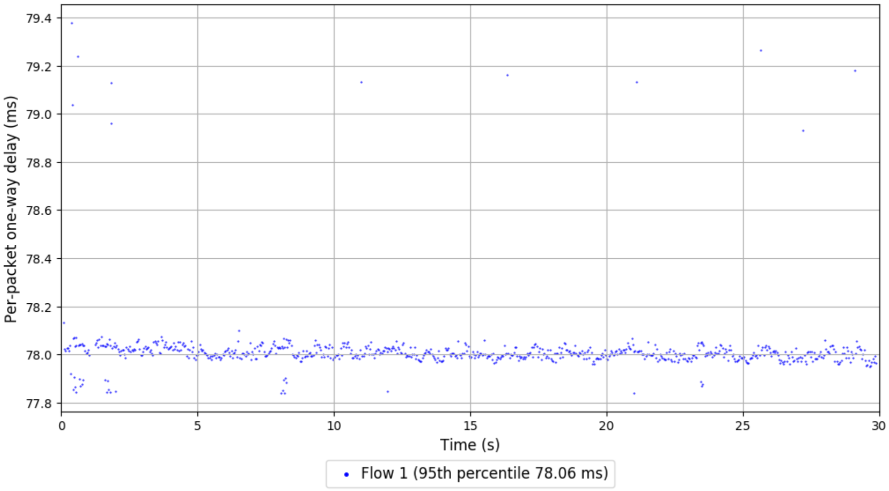
```
Run 7: Statistics of SCReAM

Start at: 2018-06-19 03:44:49
End at: 2018-06-19 03:45:19
Local clock offset: -3.687 ms
Remote clock offset: 14.669 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.055 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 78.055 ms
Loss rate: 0.38%
```

Run 7: Report of SCReAM — Data Link



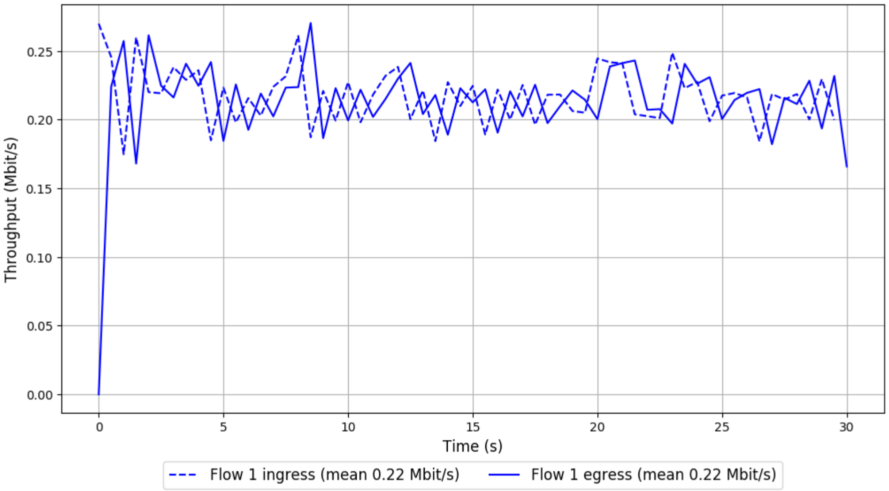


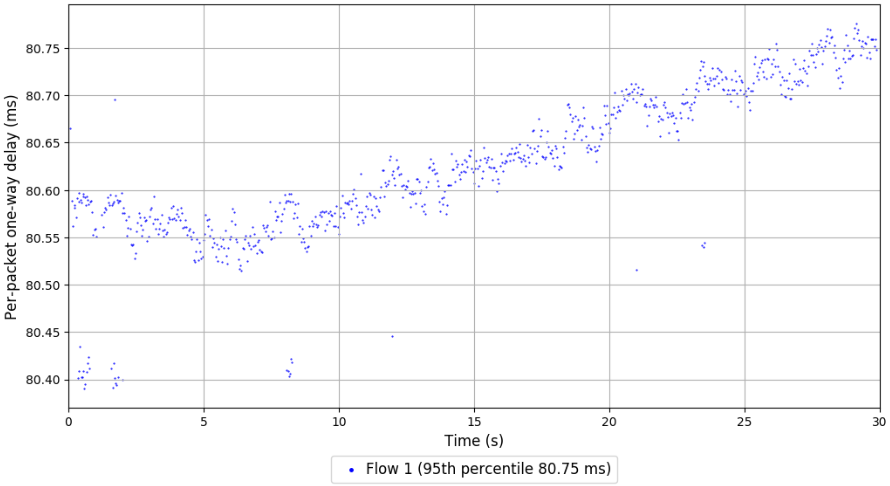
```
Run 8: Statistics of SCReAM

Start at: 2018-06-19 04:03:27
End at: 2018-06-19 04:03:57
Local clock offset: -1.758 ms
Remote clock offset: 10.212 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.747 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 80.747 ms
Loss rate: 0.51%
```

Run 8: Report of SCReAM — Data Link



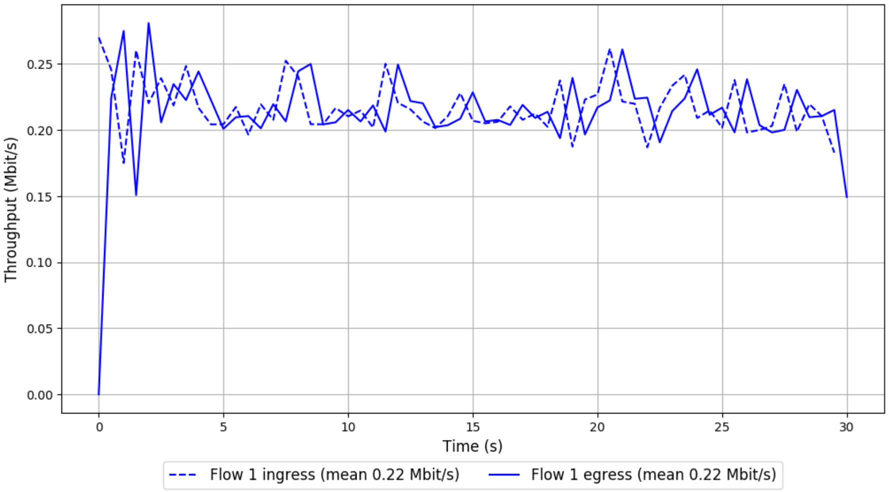


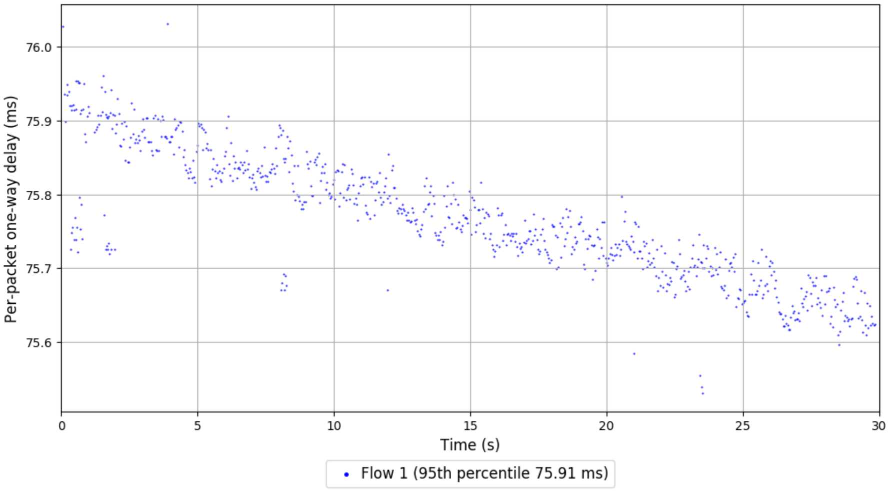
```
Run 9: Statistics of SCReAM

Start at: 2018-06-19 04:22:06
End at: 2018-06-19 04:22:36
Local clock offset: -6.69 ms
Remote clock offset: 11.836 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 75.906 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 75.906 ms
Loss rate: 0.51%
```

Run 9: Report of SCReAM — Data Link



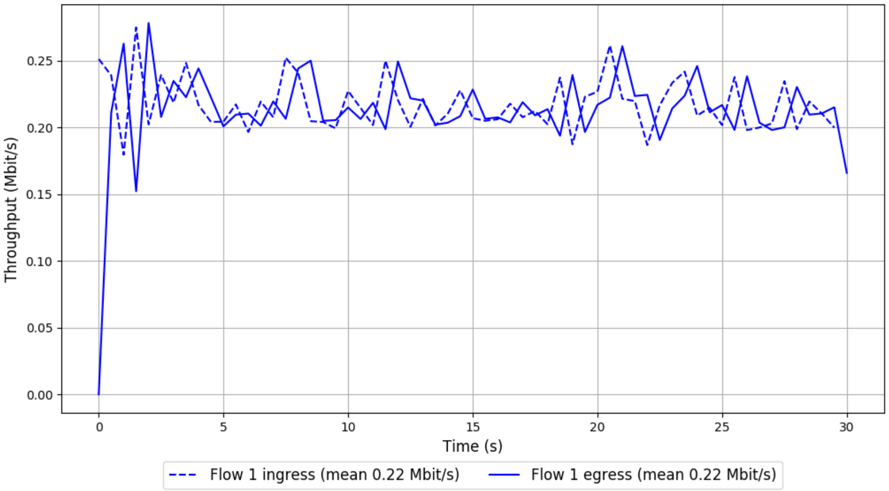


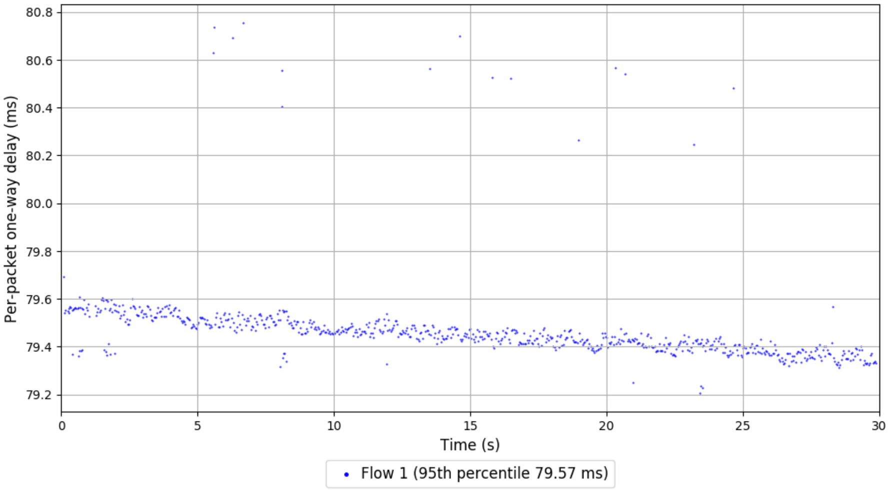
```
Run 10: Statistics of SCReAM

Start at: 2018-06-19 04:40:45
End at: 2018-06-19 04:41:15
Local clock offset: -4.501 ms
Remote clock offset: 5.291 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.568 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 79.568 ms
Loss rate: 0.51%
```

Run 10: Report of SCReAM — Data Link



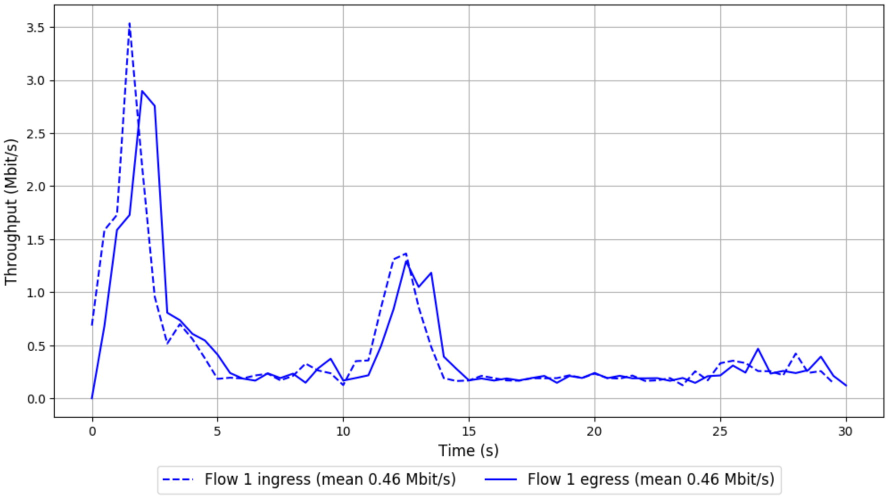


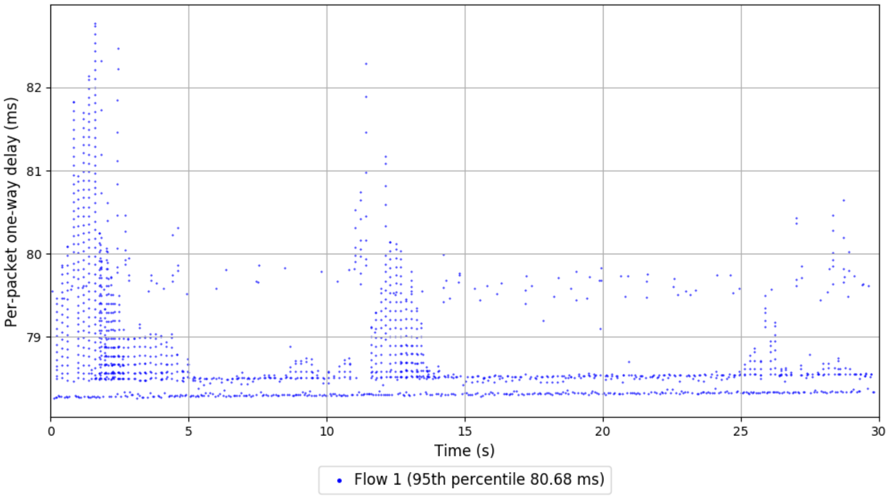
```
Run 1: Statistics of Sprout

Start at: 2018-06-19 01:50:52
End at: 2018-06-19 01:51:22
Local clock offset: -2.285 ms
Remote clock offset: 10.102 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 80.679 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.46 Mbit/s
95th percentile per-packet one-way delay: 80.679 ms
Loss rate: 0.25%
```

Run 1: Report of Sprout — Data Link



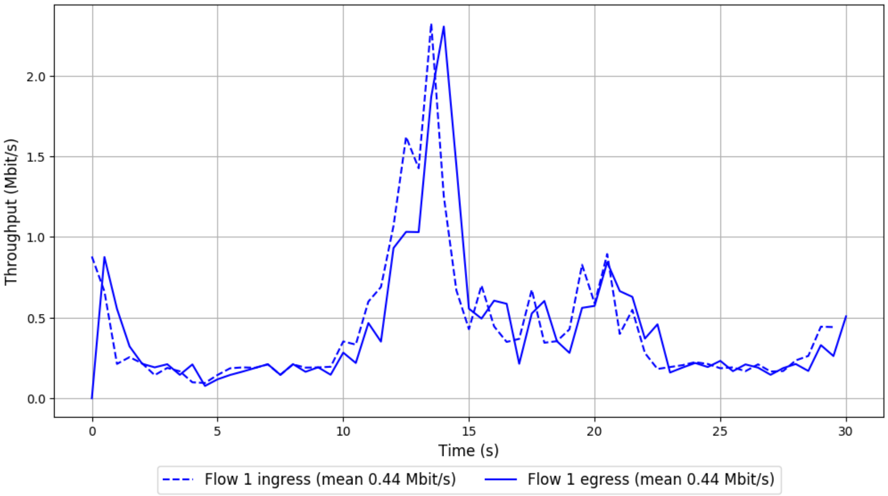


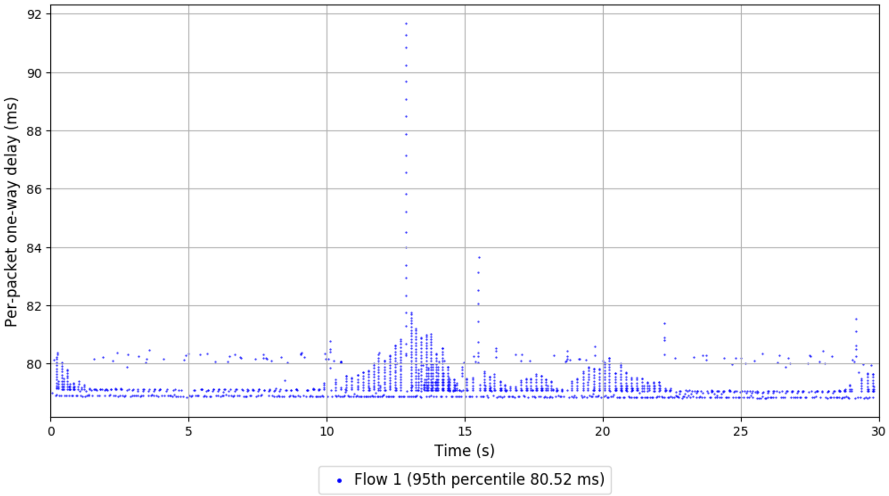
```
Run 2: Statistics of Sprout

Start at: 2018-06-19 02:09:19
End at: 2018-06-19 02:09:49
Local clock offset: -2.087 ms
Remote clock offset: 12.949 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 80.523 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 80.523 ms
Loss rate: 0.45%
```

Run 2: Report of Sprout — Data Link



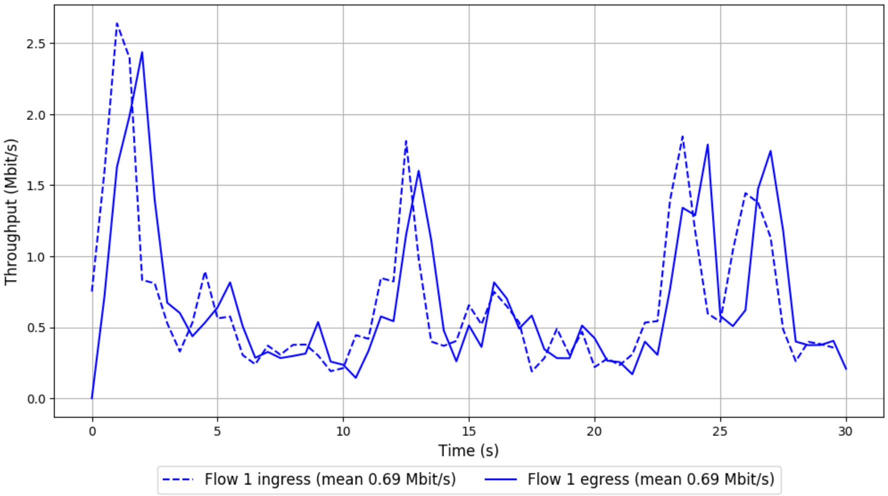


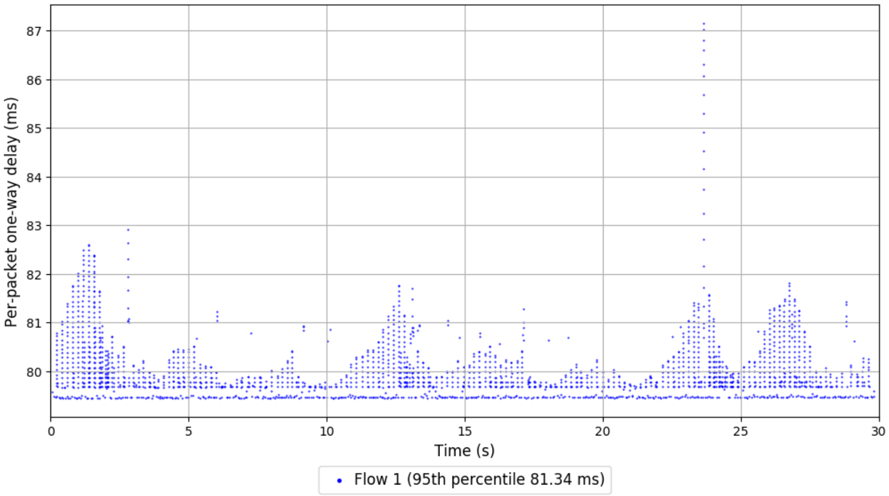
```
Run 3: Statistics of Sprout

Start at: 2018-06-19 02:27:48
End at: 2018-06-19 02:28:18
Local clock offset: -1.817 ms
Remote clock offset: 11.349 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 81.336 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 81.336 ms
Loss rate: 0.37%
```

Run 3: Report of Sprout — Data Link



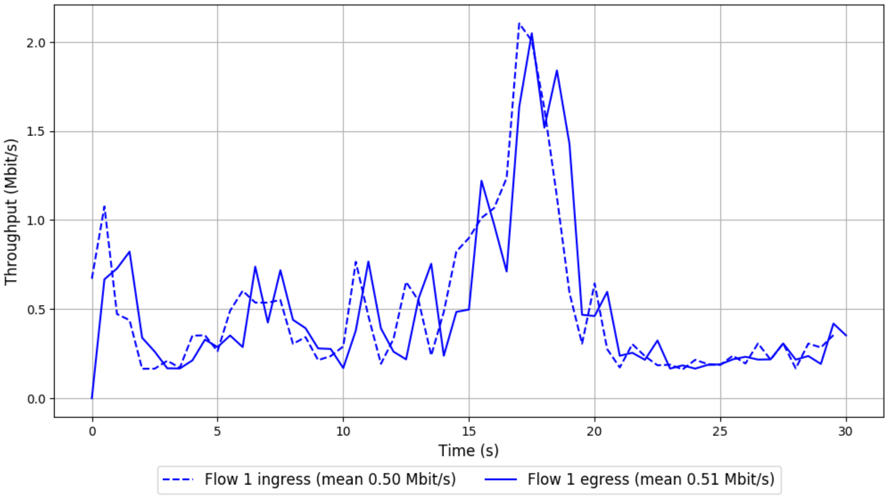


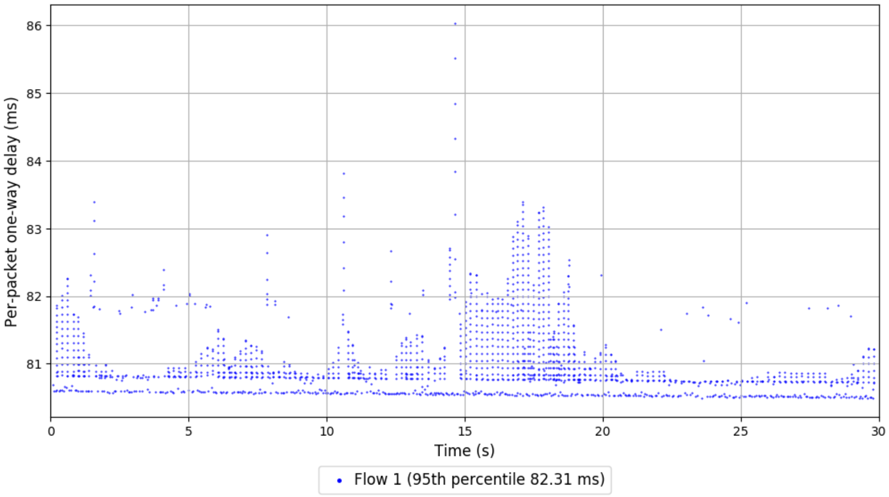
```
Run 4: Statistics of Sprout

Start at: 2018-06-19 02:46:21
End at: 2018-06-19 02:46:51
Local clock offset: -5.999 ms
Remote clock offset: 6.127 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 82.315 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.51 Mbit/s
95th percentile per-packet one-way delay: 82.315 ms
Loss rate: 0.02%
```

Run 4: Report of Sprout — Data Link



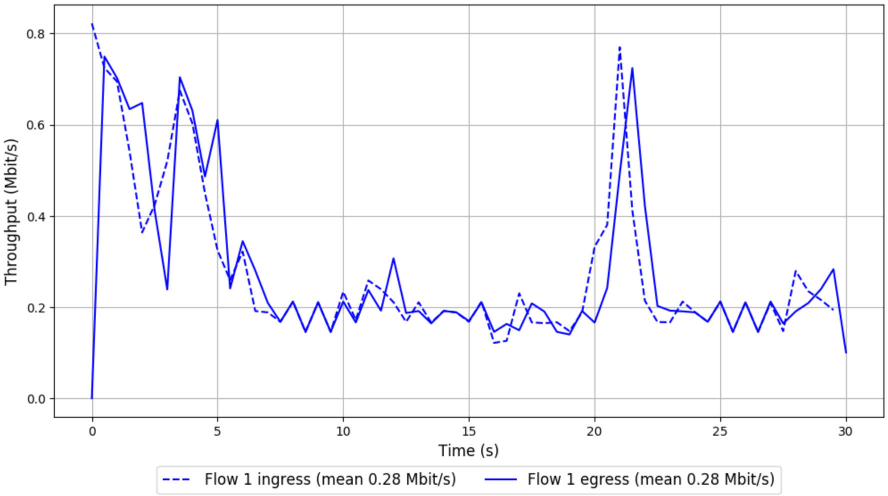


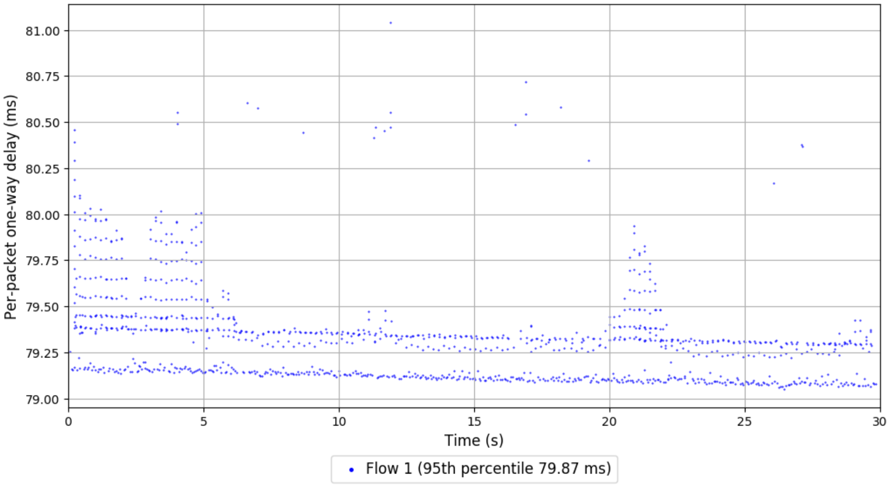
```
Run 5: Statistics of Sprout

Start at: 2018-06-19 03:05:03
End at: 2018-06-19 03:05:33
Local clock offset: -7.983 ms
Remote clock offset: 3.827 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 79.873 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 79.873 ms
Loss rate: 0.57%
```

Run 5: Report of Sprout — Data Link



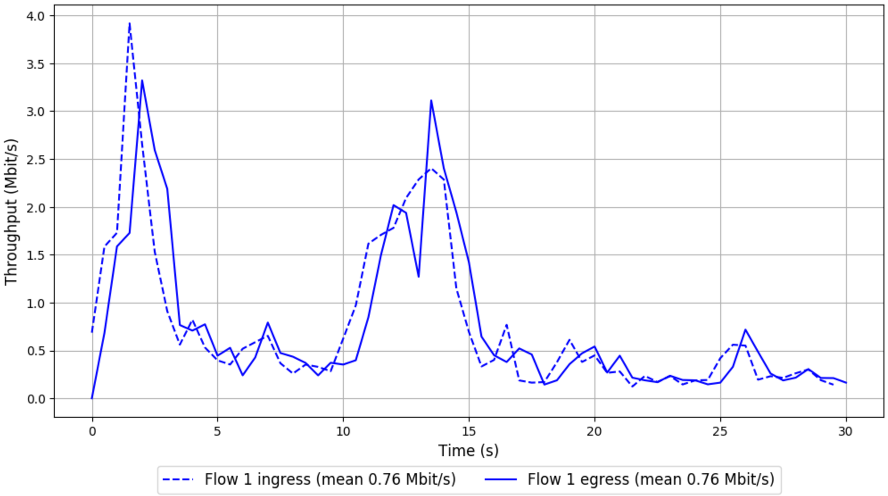


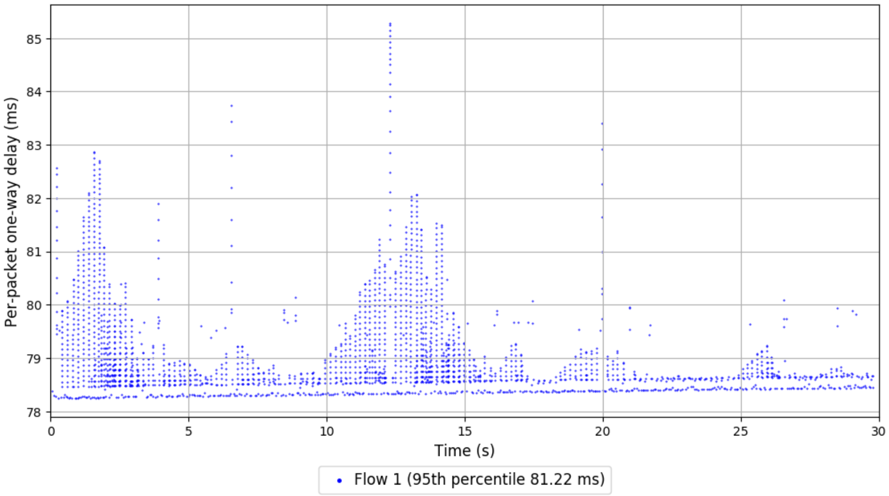
```
Run 6: Statistics of Sprout

Start at: 2018-06-19 03:23:45
End at: 2018-06-19 03:24:15
Local clock offset: -7.63 ms
Remote clock offset: 9.155 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 81.218 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 0.76 Mbit/s
95th percentile per-packet one-way delay: 81.218 ms
Loss rate: 0.10%
```

Run 6: Report of Sprout — Data Link



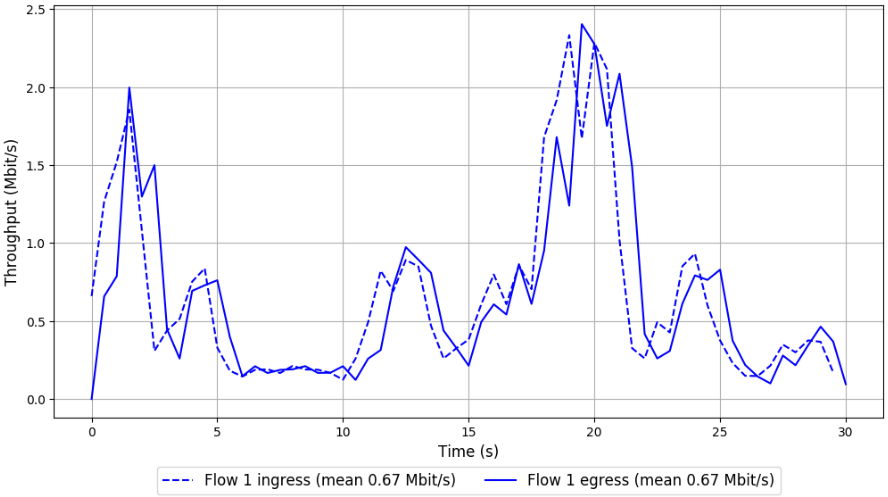


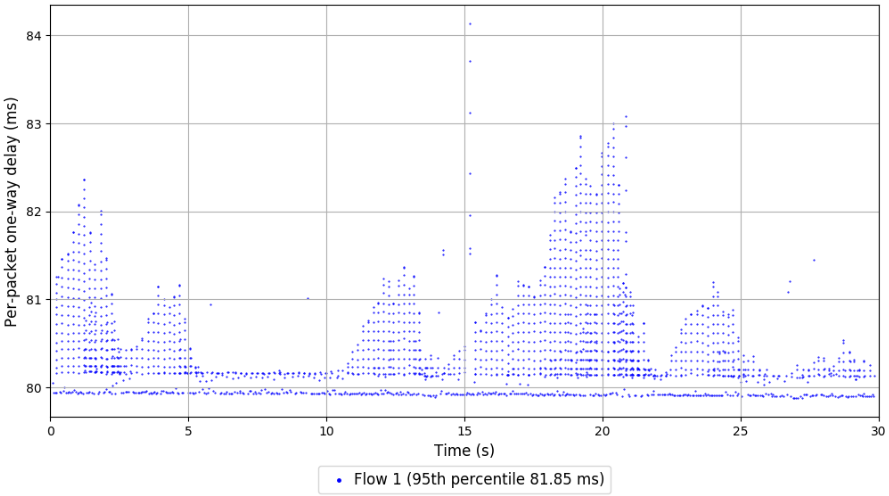
```
Run 7: Statistics of Sprout

Start at: 2018-06-19 03:42:29
End at: 2018-06-19 03:42:59
Local clock offset: -4.203 ms
Remote clock offset: 14.571 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 81.852 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 81.852 ms
Loss rate: 0.19%
```

Run 7: Report of Sprout — Data Link



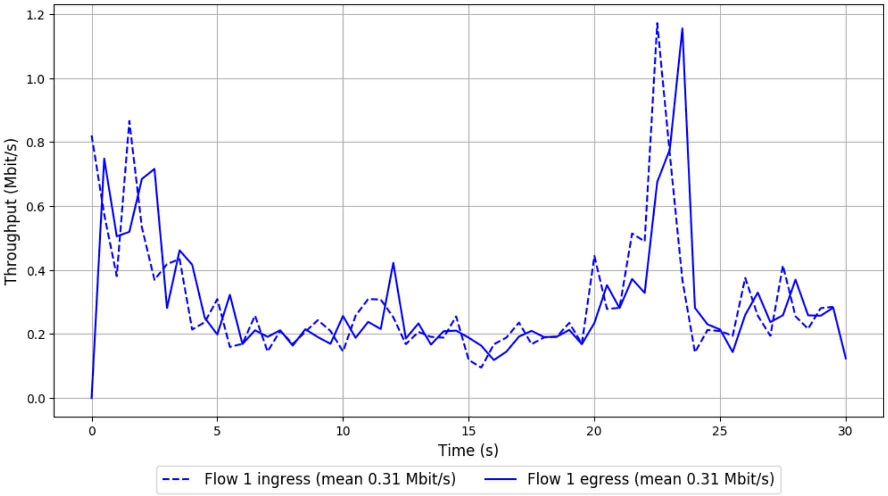


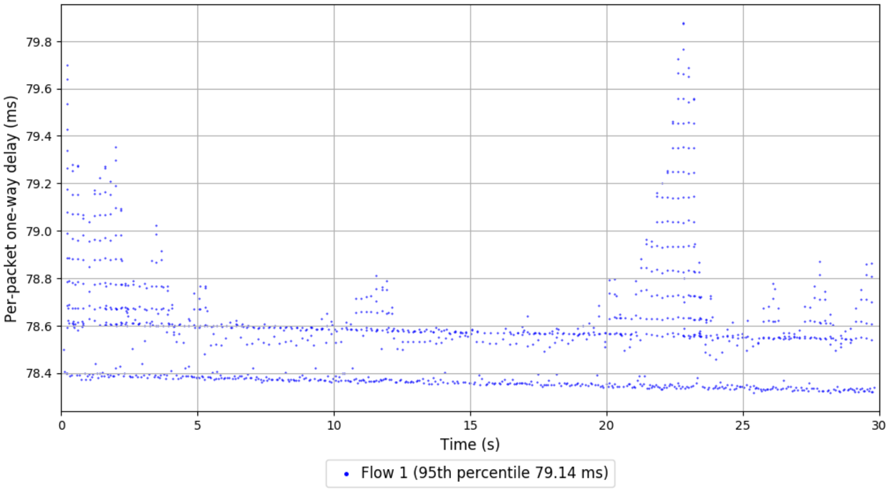
```
Run 8: Statistics of Sprout

Start at: 2018-06-19 04:01:07
End at: 2018-06-19 04:01:37
Local clock offset: -1.848 ms
Remote clock offset: 10.16 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 79.143 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 79.143 ms
Loss rate: 0.89%
```

Run 8: Report of Sprout — Data Link



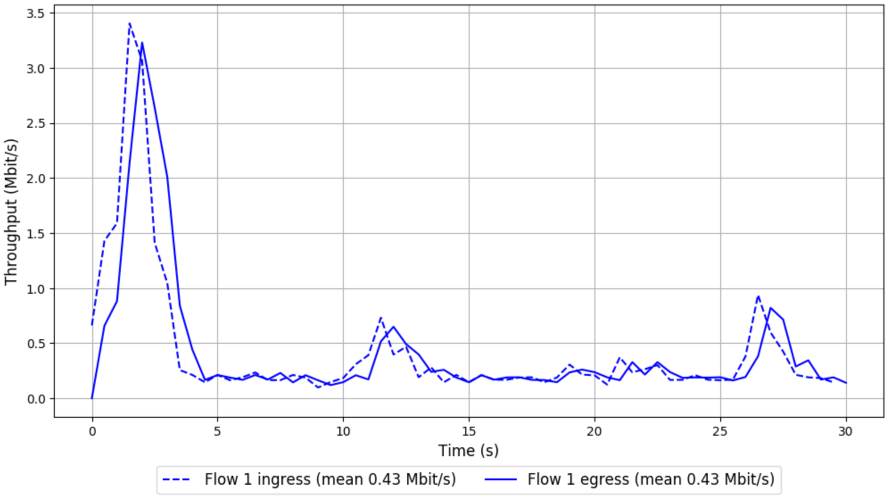


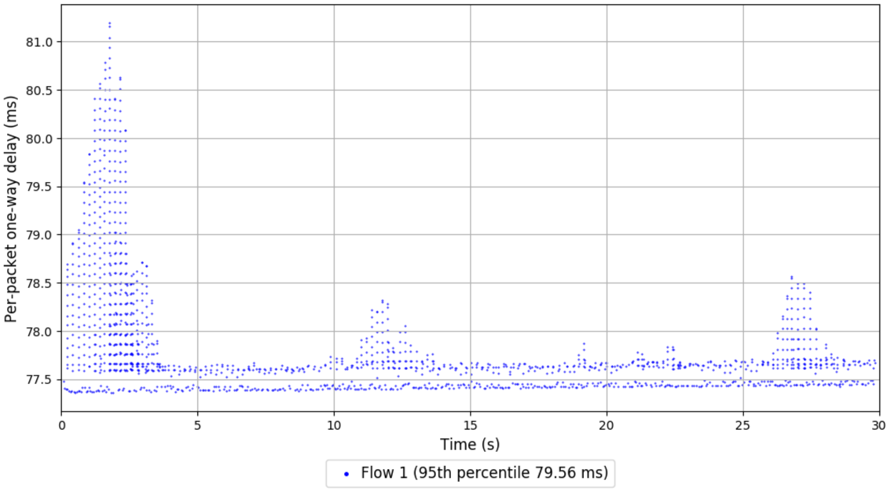
```
Run 9: Statistics of Sprout

Start at: 2018-06-19 04:19:46
End at: 2018-06-19 04:20:16
Local clock offset: -6.343 ms
Remote clock offset: 11.297 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.560 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 79.560 ms
Loss rate: 0.09%
```

Run 9: Report of Sprout — Data Link



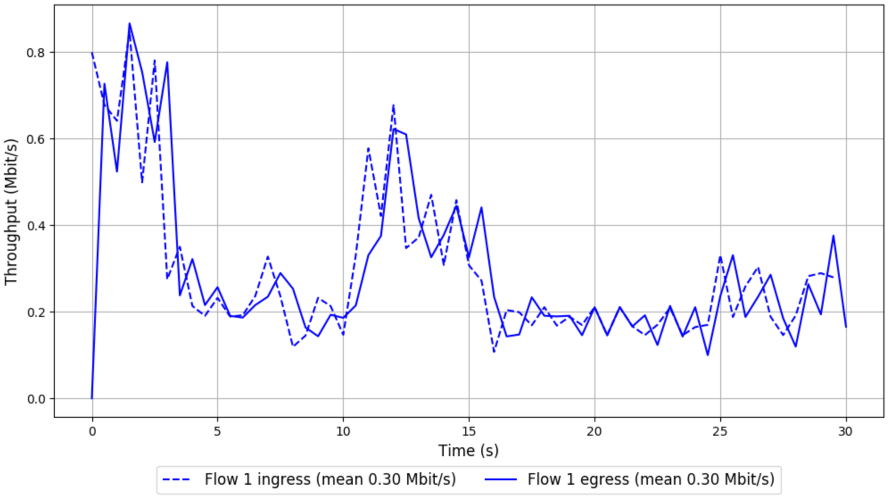


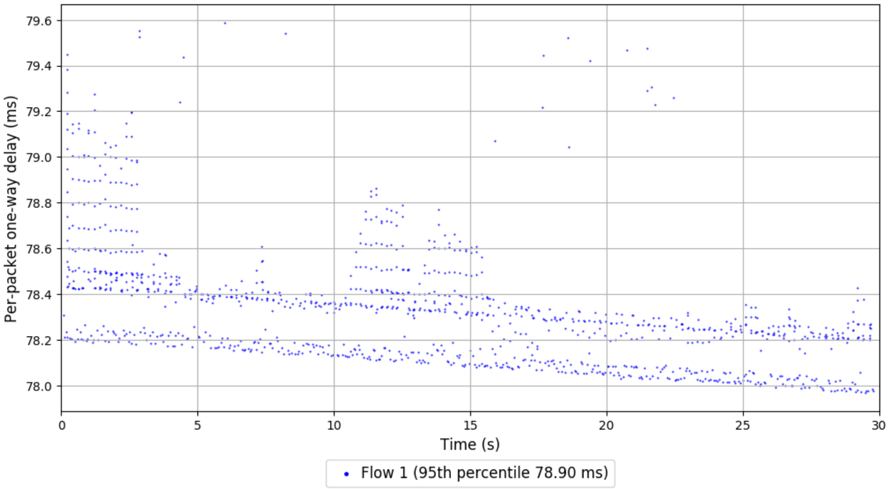
```
Run 10: Statistics of Sprout

Start at: 2018-06-19 04:38:25
End at: 2018-06-19 04:38:55
Local clock offset: -5.35 ms
Remote clock offset: 6.686 ms

# Below is generated by plot.py at 2018-06-19 05:00:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 78.904 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 78.904 ms
Loss rate: 0.66%
```

Run 10: Report of Sprout — Data Link



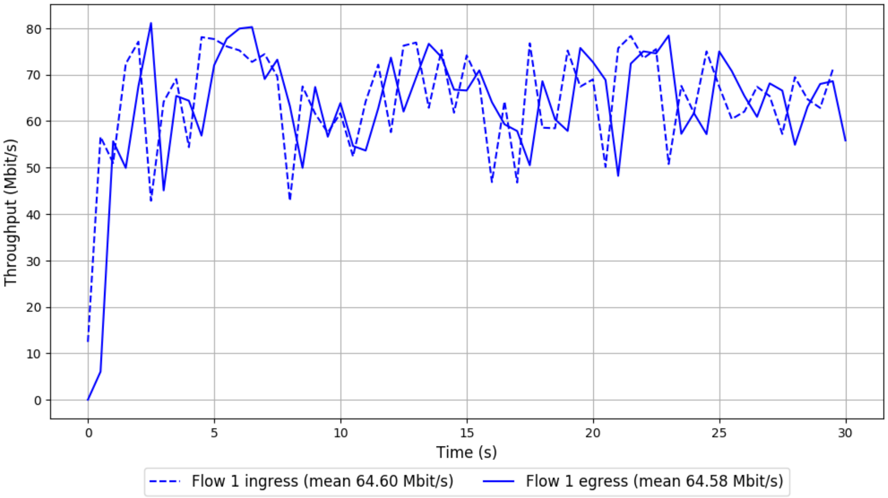


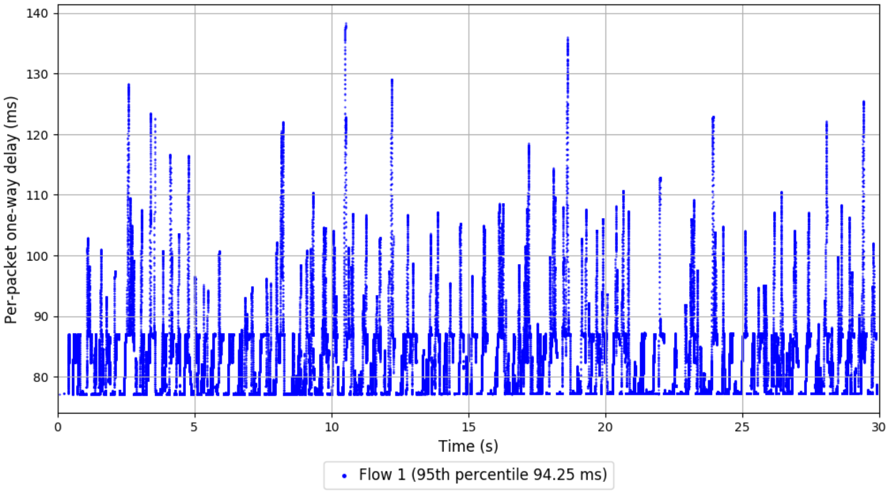
```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-19 01:45:04
End at: 2018-06-19 01:45:34
Local clock offset: -2.285 ms
Remote clock offset: 10.585 ms

# Below is generated by plot.py at 2018-06-19 05:01:38
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.58 Mbit/s
95th percentile per-packet one-way delay: 94.252 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 64.58 Mbit/s
95th percentile per-packet one-way delay: 94.252 ms
Loss rate: 0.58%
```

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



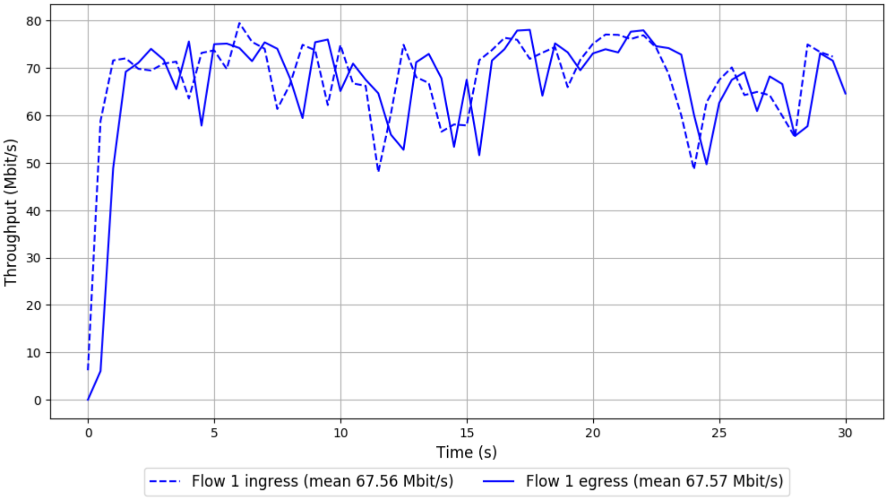


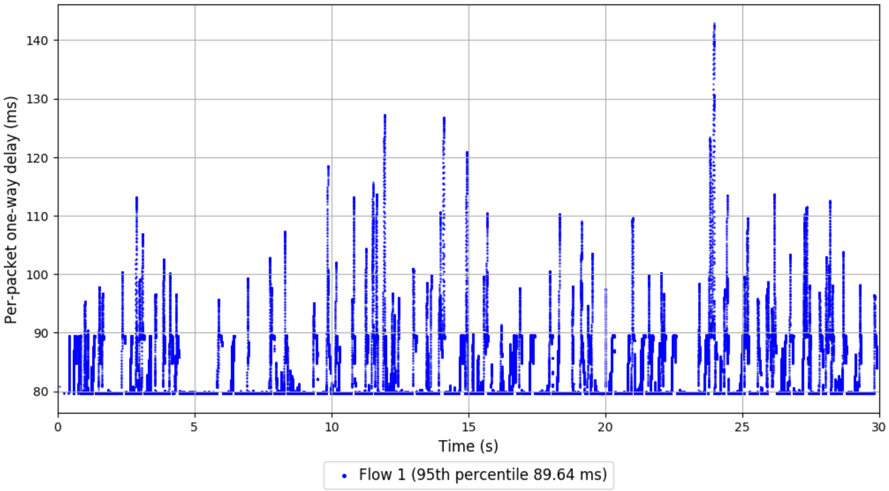
```
Run 2: Statistics of TaoVA-100x

Start at: 2018-06-19 02:03:29
End at: 2018-06-19 02:03:59
Local clock offset: -2.279 ms
Remote clock offset: 12.697 ms

# Below is generated by plot.py at 2018-06-19 05:01:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.57 Mbit/s
95th percentile per-packet one-way delay: 89.642 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 67.57 Mbit/s
95th percentile per-packet one-way delay: 89.642 ms
Loss rate: 0.52%
```

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



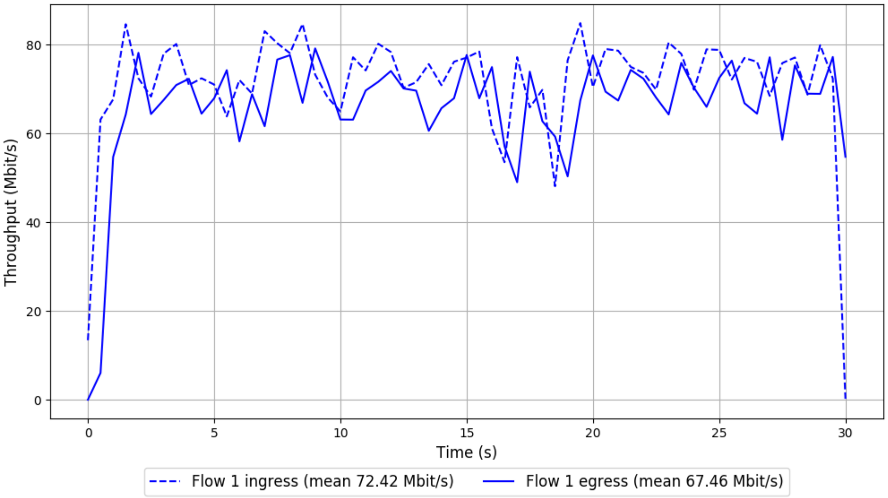


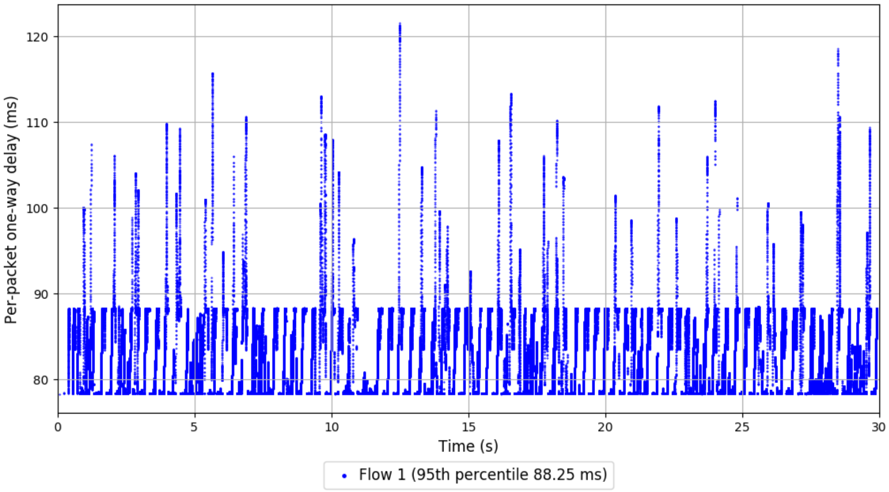
```
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 02:21:54
End at: 2018-06-19 02:22:24
Local clock offset: -1.879 ms
Remote clock offset: 10.126 ms

# Below is generated by plot.py at 2018-06-19 05:01:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 67.46 Mbit/s
95th percentile per-packet one-way delay: 88.245 ms
Loss rate: 7.33%
-- Flow 1:
Average throughput: 67.46 Mbit/s
95th percentile per-packet one-way delay: 88.245 ms
Loss rate: 7.33%
```

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



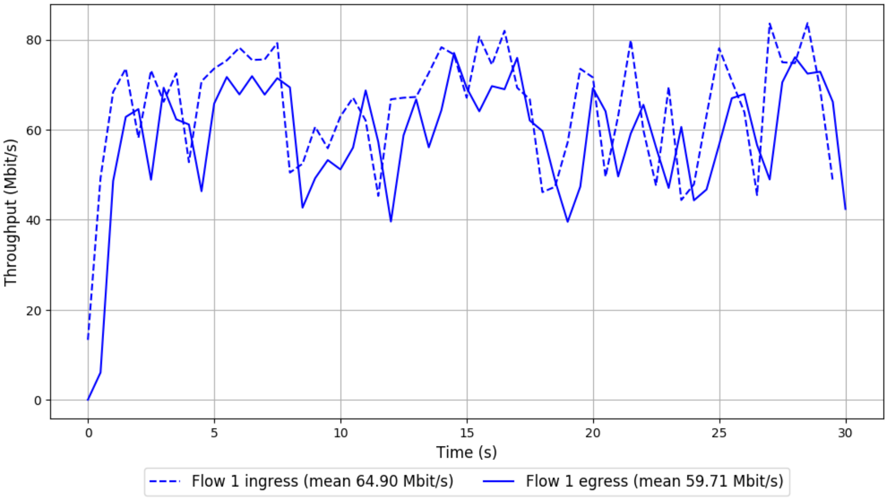


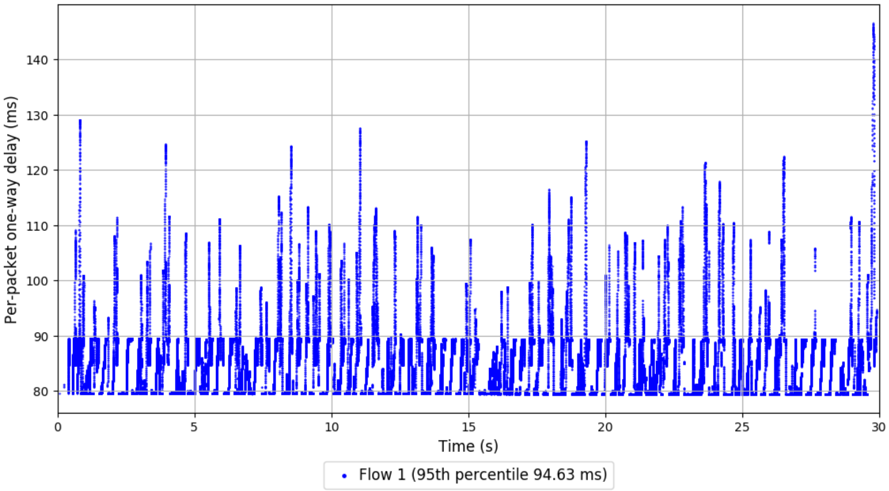
```
Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 02:40:27
End at: 2018-06-19 02:40:58
Local clock offset: -4.684 ms
Remote clock offset: 10.376 ms

# Below is generated by plot.py at 2018-06-19 05:01:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.71 Mbit/s
95th percentile per-packet one-way delay: 94.633 ms
Loss rate: 8.54%
-- Flow 1:
Average throughput: 59.71 Mbit/s
95th percentile per-packet one-way delay: 94.633 ms
Loss rate: 8.54%
```

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



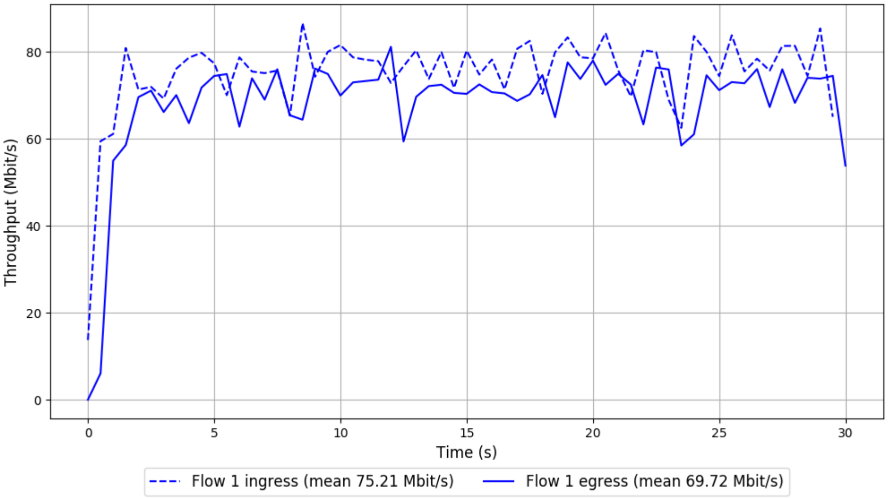


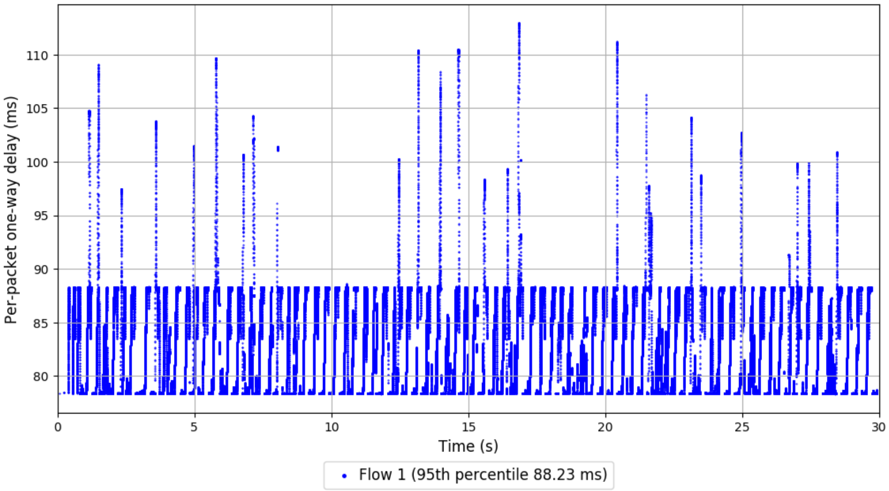
```
Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 02:59:10
End at: 2018-06-19 02:59:40
Local clock offset: -7.625 ms
Remote clock offset: 4.091 ms

# Below is generated by plot.py at 2018-06-19 05:02:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 69.72 Mbit/s
95th percentile per-packet one-way delay: 88.227 ms
Loss rate: 7.77%
-- Flow 1:
Average throughput: 69.72 Mbit/s
95th percentile per-packet one-way delay: 88.227 ms
Loss rate: 7.77%
```

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



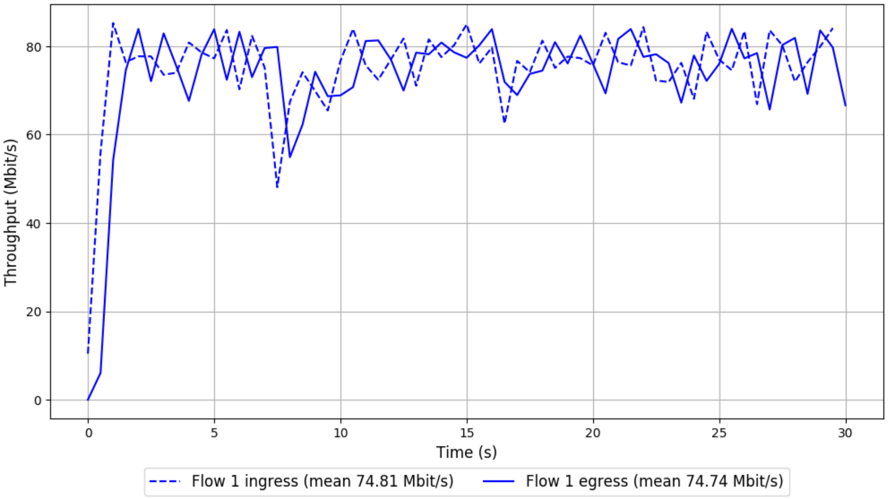


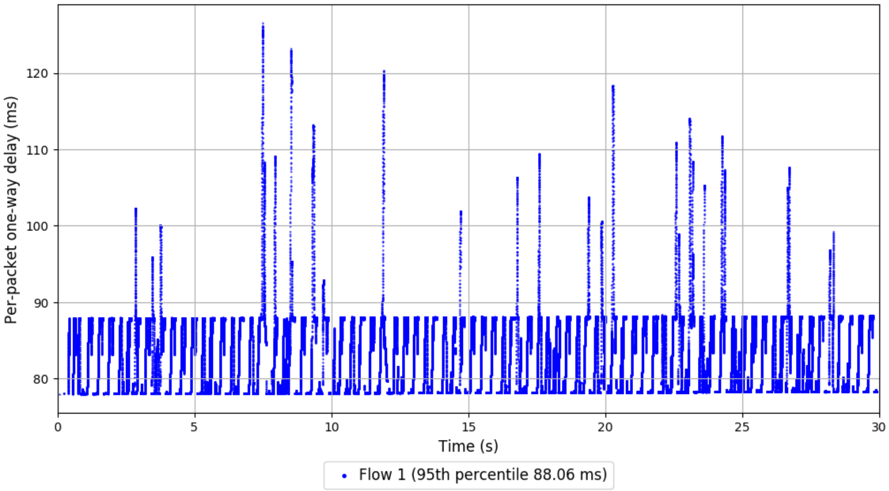
```
Run 6: Statistics of TaoVA-100x

Start at: 2018-06-19 03:17:50
End at: 2018-06-19 03:18:20
Local clock offset: -7.441 ms
Remote clock offset: 7.148 ms

# Below is generated by plot.py at 2018-06-19 05:02:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.74 Mbit/s
95th percentile per-packet one-way delay: 88.060 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 74.74 Mbit/s
95th percentile per-packet one-way delay: 88.060 ms
Loss rate: 0.60%
```

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



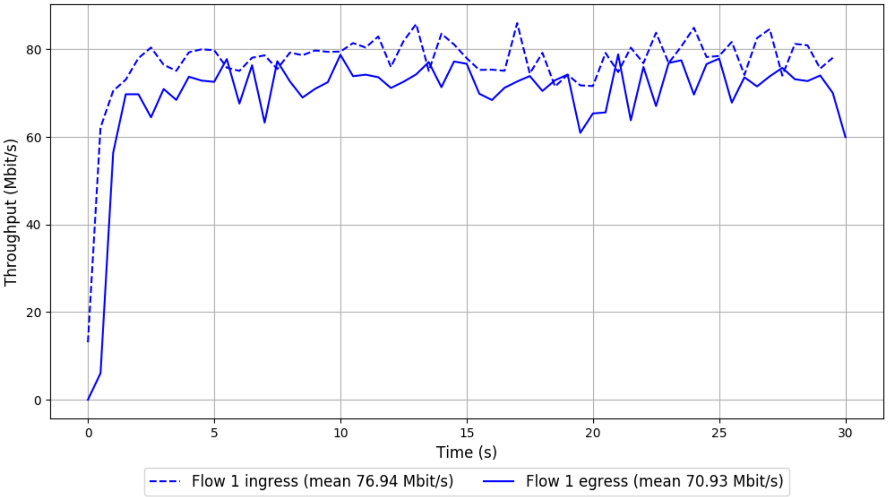


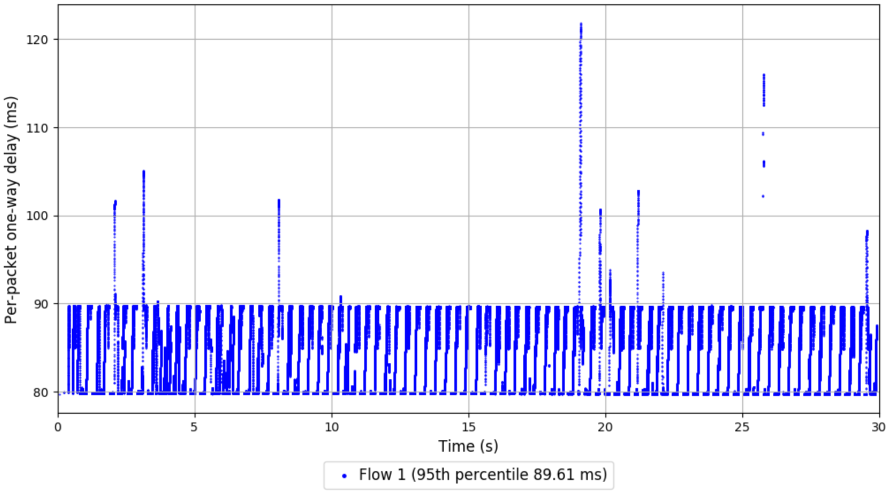
```
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-19 03:36:34
End at: 2018-06-19 03:37:04
Local clock offset: -6.384 ms
Remote clock offset: 13.394 ms

# Below is generated by plot.py at 2018-06-19 05:02:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.93 Mbit/s
95th percentile per-packet one-way delay: 89.611 ms
Loss rate: 8.23%
-- Flow 1:
Average throughput: 70.93 Mbit/s
95th percentile per-packet one-way delay: 89.611 ms
Loss rate: 8.23%
```

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



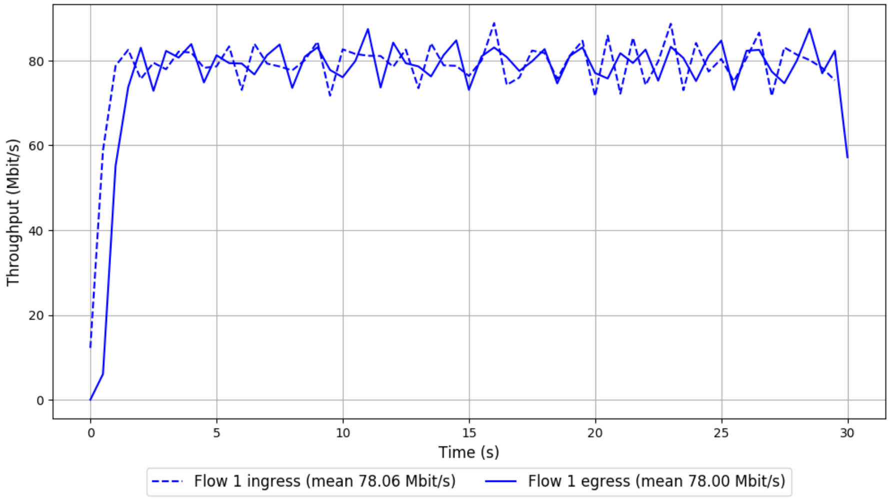


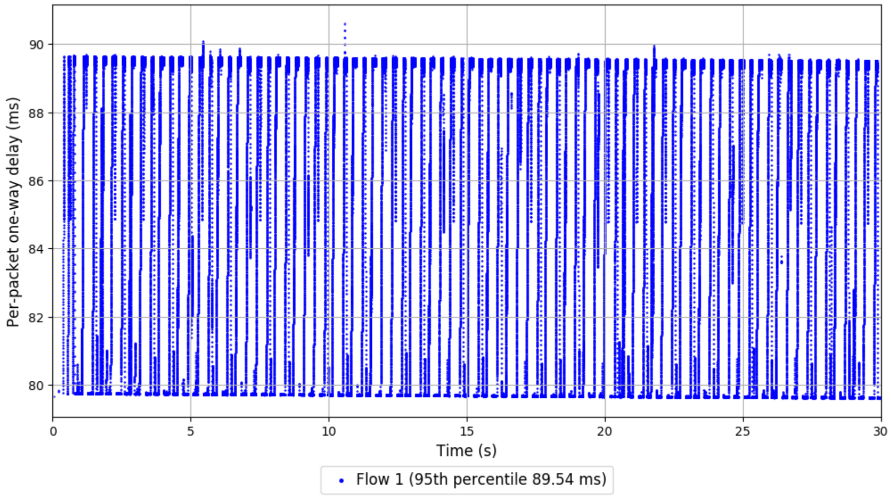
```
Run 8: Statistics of TaoVA-100x

Start at: 2018-06-19 03:55:13
End at: 2018-06-19 03:55:43
Local clock offset: -2.324 ms
Remote clock offset: 12.019 ms

# Below is generated by plot.py at 2018-06-19 05:02:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 78.00 Mbit/s
95th percentile per-packet one-way delay: 89.542 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 78.00 Mbit/s
95th percentile per-packet one-way delay: 89.542 ms
Loss rate: 0.61%
```

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



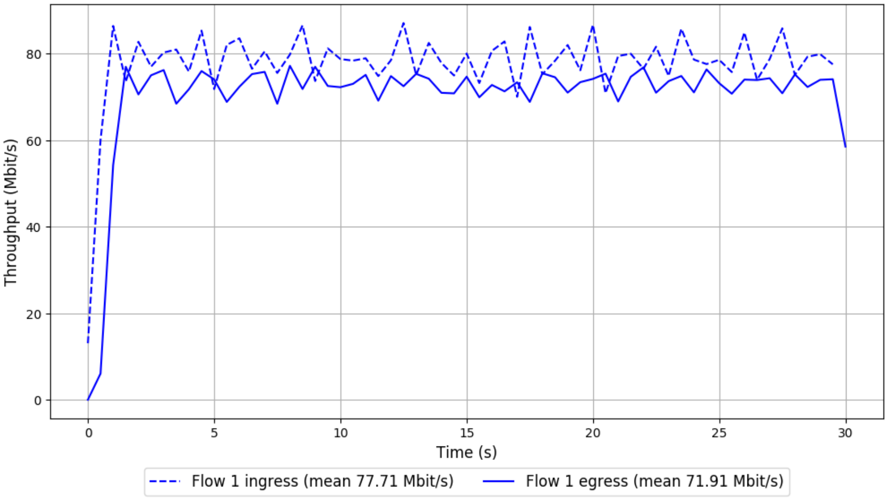


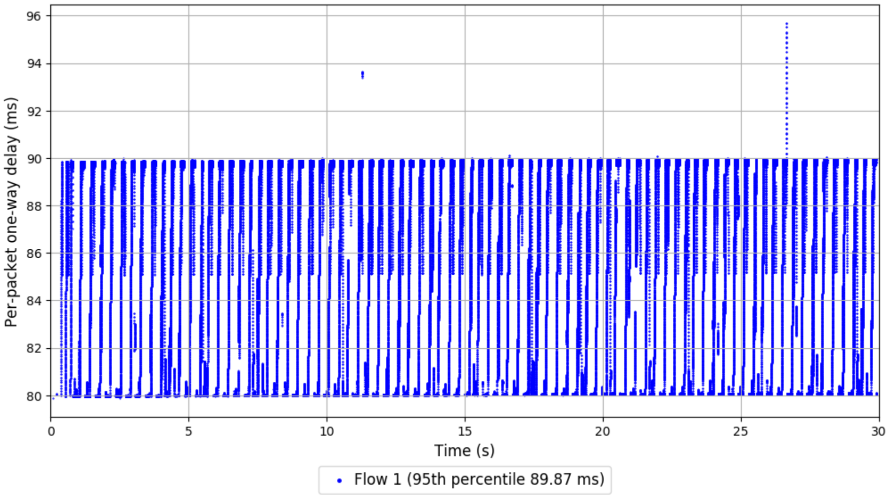
```
Run 9: Statistics of TaoVA-100x

Start at: 2018-06-19 04:13:51
End at: 2018-06-19 04:14:21
Local clock offset: -5.337 ms
Remote clock offset: 10.98 ms

# Below is generated by plot.py at 2018-06-19 05:03:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.91 Mbit/s
95th percentile per-packet one-way delay: 89.866 ms
Loss rate: 7.93%
-- Flow 1:
Average throughput: 71.91 Mbit/s
95th percentile per-packet one-way delay: 89.866 ms
Loss rate: 7.93%
```

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



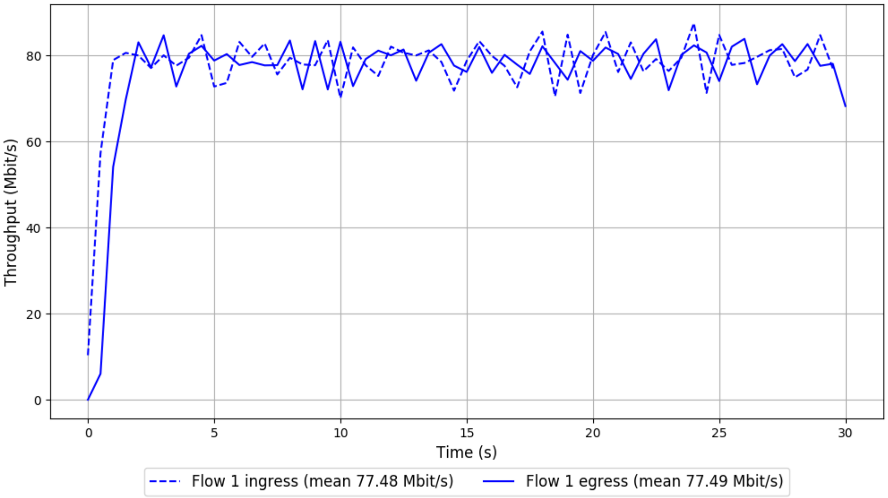


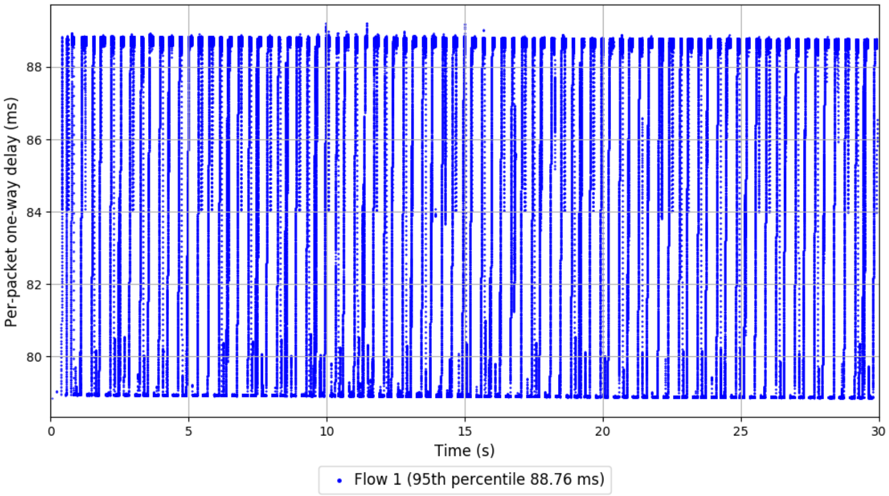
```
Run 10: Statistics of TaoVA-100x

Start at: 2018-06-19 04:32:31
End at: 2018-06-19 04:33:01
Local clock offset: -7.473 ms
Remote clock offset: 7.712 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.49 Mbit/s
95th percentile per-packet one-way delay: 88.761 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 77.49 Mbit/s
95th percentile per-packet one-way delay: 88.761 ms
Loss rate: 0.51%
```

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



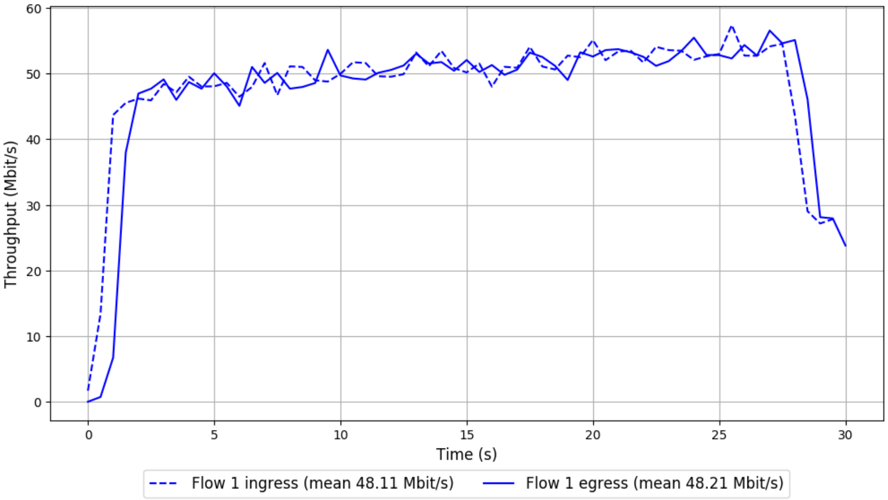


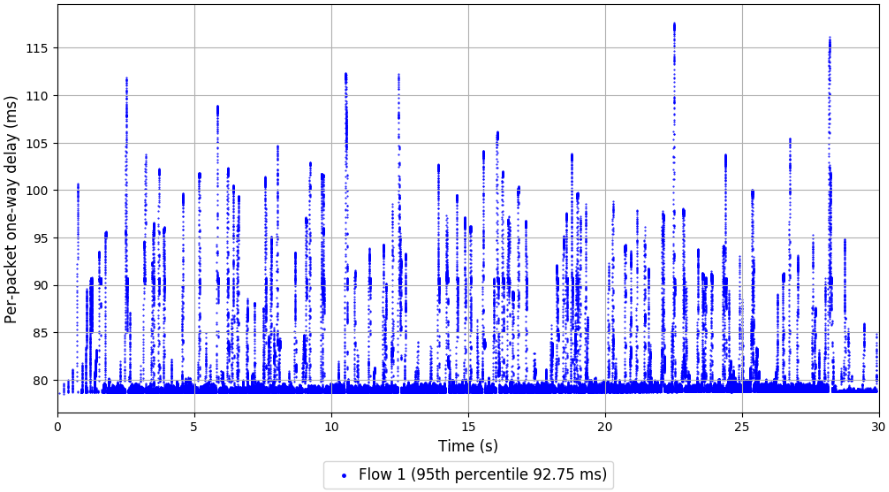
```
Run 1: Statistics of TCP Vegas

Start at: 2018-06-19 01:41:38
End at: 2018-06-19 01:42:08
Local clock offset: -2.279 ms
Remote clock offset: 8.974 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.21 Mbit/s
95th percentile per-packet one-way delay: 92.755 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 48.21 Mbit/s
95th percentile per-packet one-way delay: 92.755 ms
Loss rate: 0.31%
```

Run 1: Report of TCP Vegas — Data Link



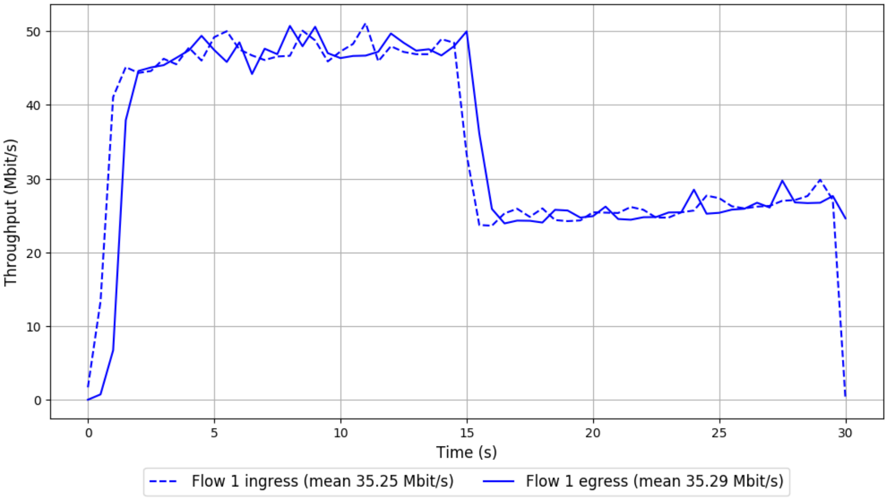


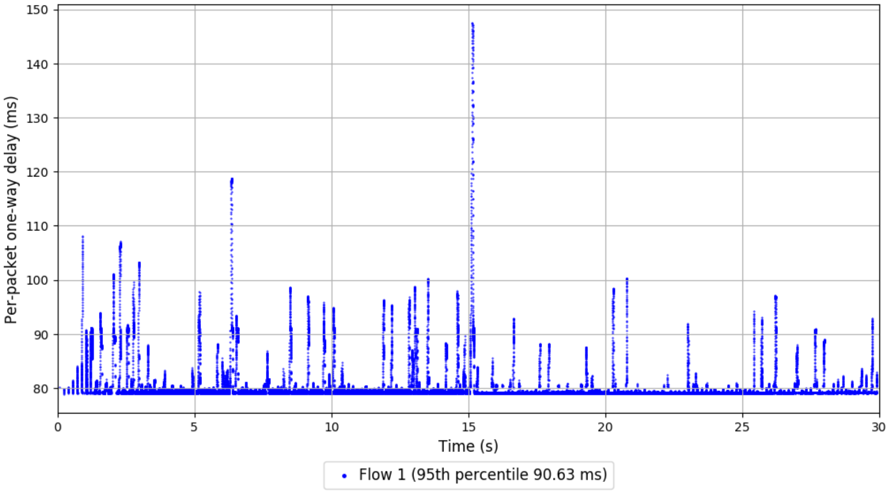
```
Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 02:00:04
End at: 2018-06-19 02:00:34
Local clock offset: -2.338 ms
Remote clock offset: 13.484 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 90.629 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 35.29 Mbit/s
95th percentile per-packet one-way delay: 90.629 ms
Loss rate: 0.41%
```

Run 2: Report of TCP Vegas — Data Link



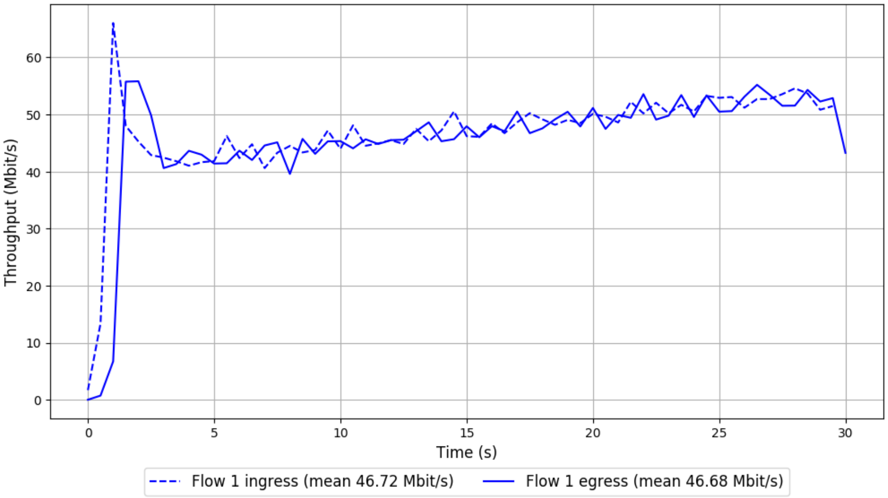


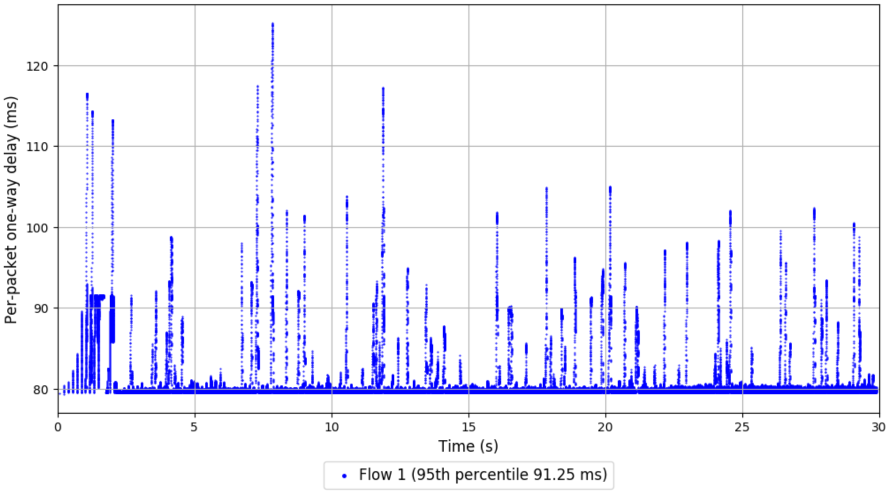
```
Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 02:18:28
End at: 2018-06-19 02:18:58
Local clock offset: -1.907 ms
Remote clock offset: 11.36 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 46.68 Mbit/s
95th percentile per-packet one-way delay: 91.250 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 46.68 Mbit/s
95th percentile per-packet one-way delay: 91.250 ms
Loss rate: 0.61%
```

Run 3: Report of TCP Vegas — Data Link



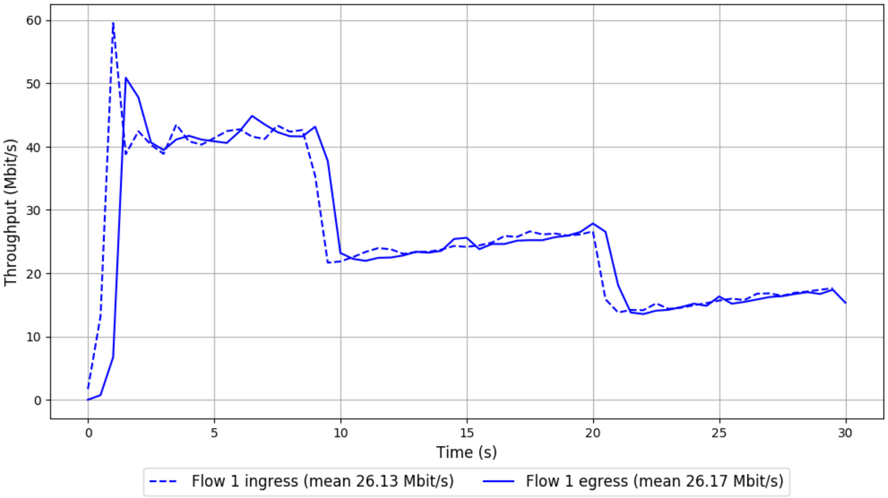


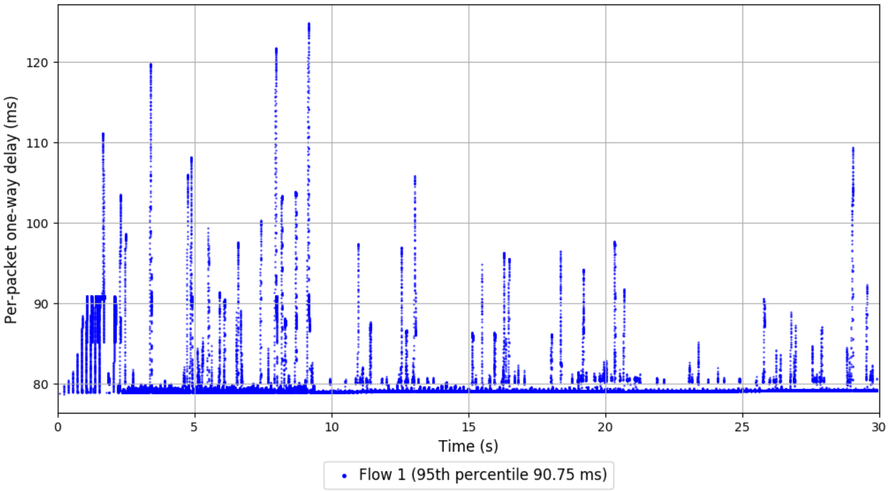
```
Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 02:37:03
End at: 2018-06-19 02:37:33
Local clock offset: -3.304 ms
Remote clock offset: 12.786 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.17 Mbit/s
95th percentile per-packet one-way delay: 90.752 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 26.17 Mbit/s
95th percentile per-packet one-way delay: 90.752 ms
Loss rate: 0.37%
```

Run 4: Report of TCP Vegas — Data Link



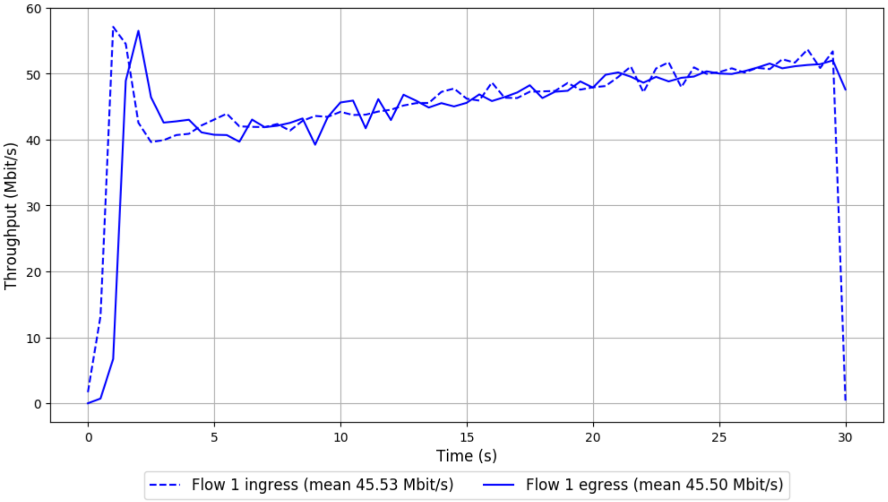


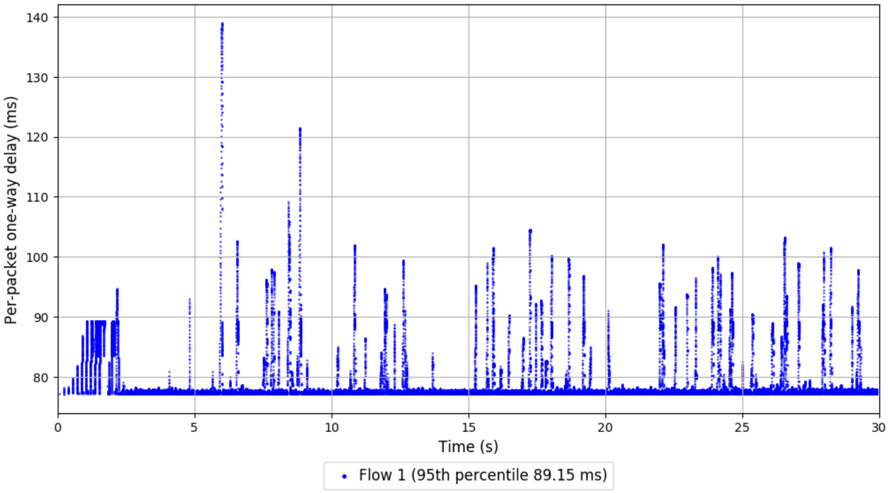
```
Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 02:55:39
End at: 2018-06-19 02:56:09
Local clock offset: -7.297 ms
Remote clock offset: 4.831 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.50 Mbit/s
95th percentile per-packet one-way delay: 89.154 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 45.50 Mbit/s
95th percentile per-packet one-way delay: 89.154 ms
Loss rate: 0.58%
```

Run 5: Report of TCP Vegas — Data Link



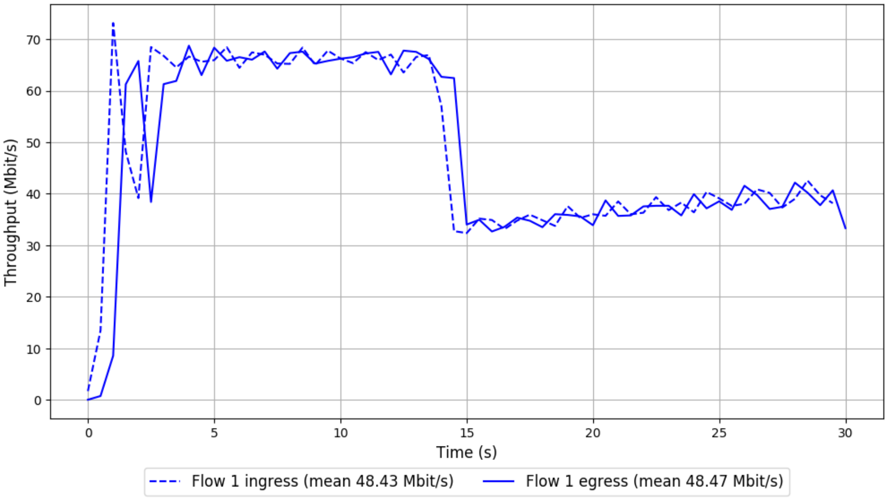


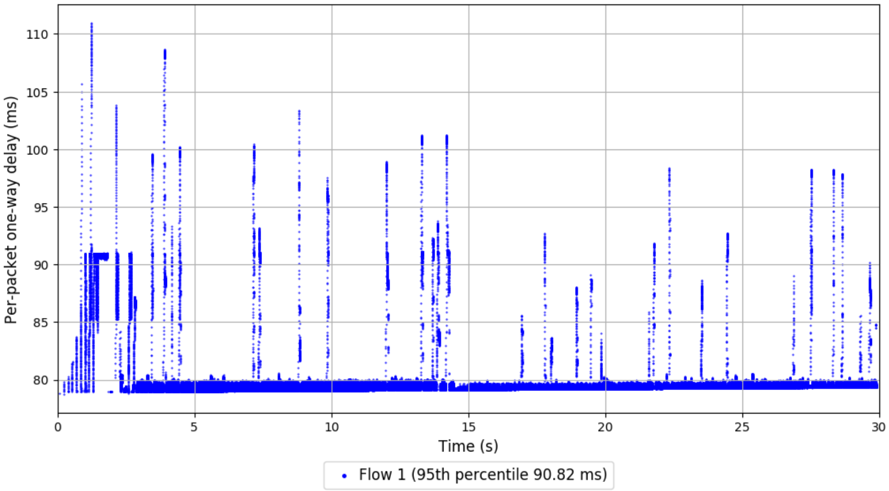
```
Run 6: Statistics of TCP Vegas

Start at: 2018-06-19 03:14:24
End at: 2018-06-19 03:14:54
Local clock offset: -7.452 ms
Remote clock offset: 3.231 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.47 Mbit/s
95th percentile per-packet one-way delay: 90.818 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 48.47 Mbit/s
95th percentile per-packet one-way delay: 90.818 ms
Loss rate: 0.43%
```

Run 6: Report of TCP Vegas — Data Link



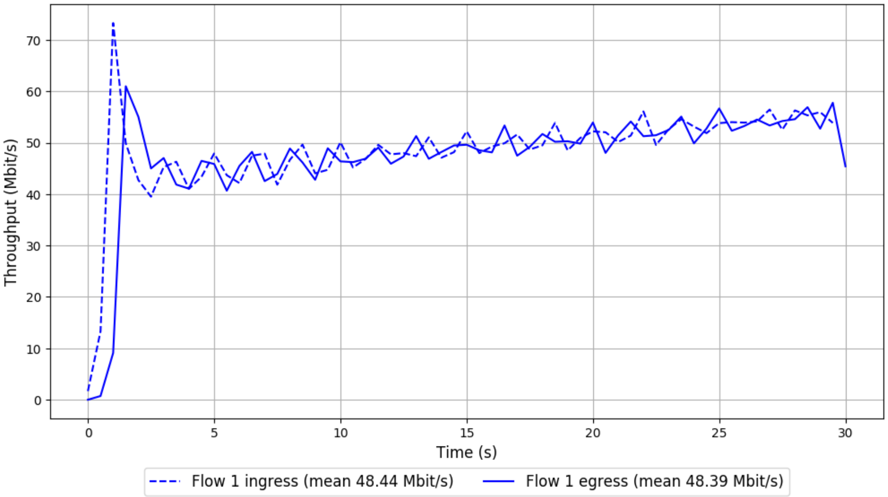


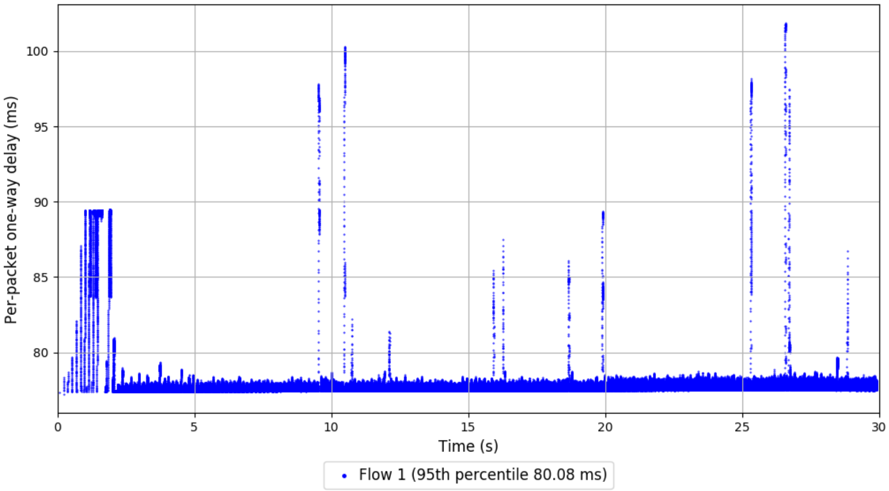
```
Run 7: Statistics of TCP Vegas

Start at: 2018-06-19 03:33:08
End at: 2018-06-19 03:33:38
Local clock offset: -7.834 ms
Remote clock offset: 12.974 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.39 Mbit/s
95th percentile per-packet one-way delay: 80.078 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 48.39 Mbit/s
95th percentile per-packet one-way delay: 80.078 ms
Loss rate: 0.59%
```

Run 7: Report of TCP Vegas — Data Link



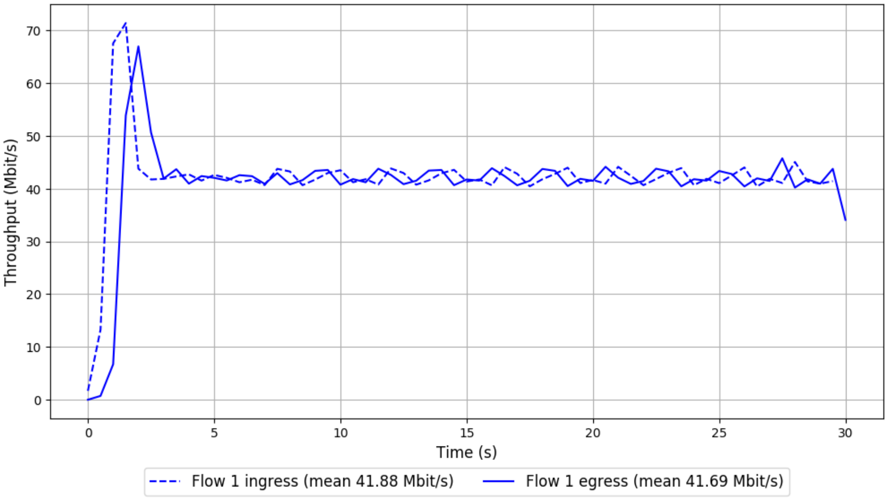


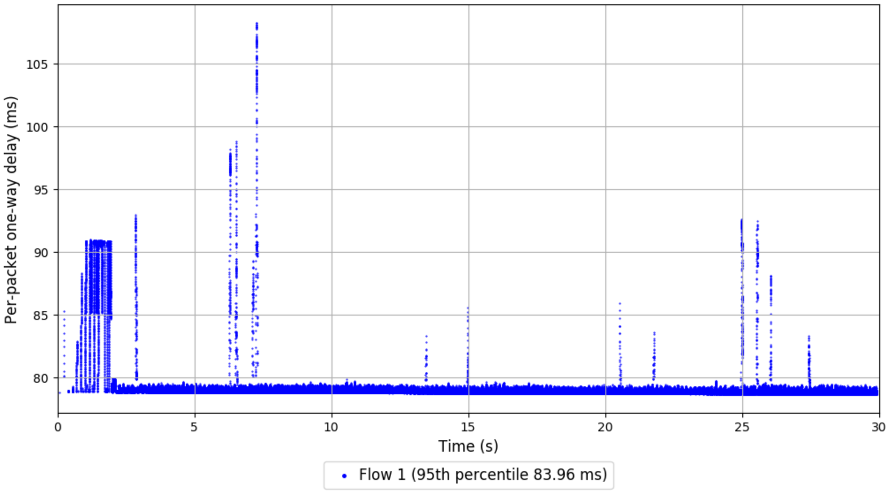
```
Run 8: Statistics of TCP Vegas

Start at: 2018-06-19 03:51:47
End at: 2018-06-19 03:52:17
Local clock offset: -2.591 ms
Remote clock offset: 11.969 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 41.69 Mbit/s
95th percentile per-packet one-way delay: 83.957 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 41.69 Mbit/s
95th percentile per-packet one-way delay: 83.957 ms
Loss rate: 0.98%
```

Run 8: Report of TCP Vegas — Data Link



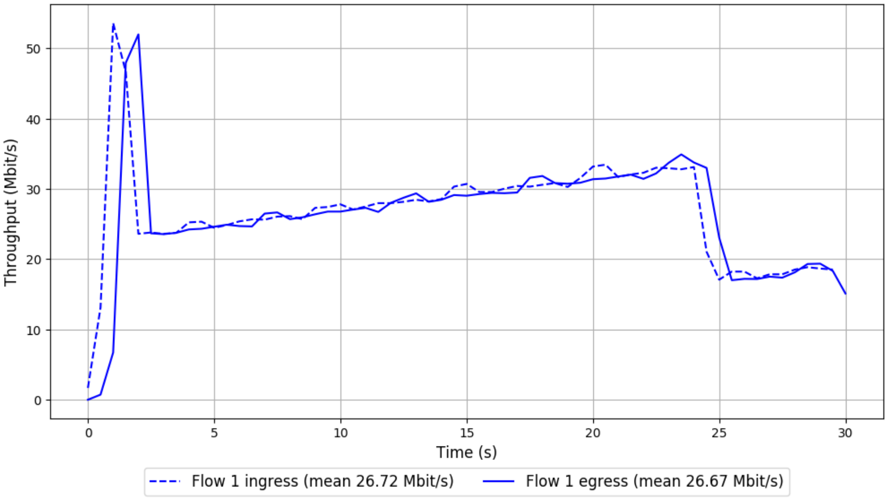


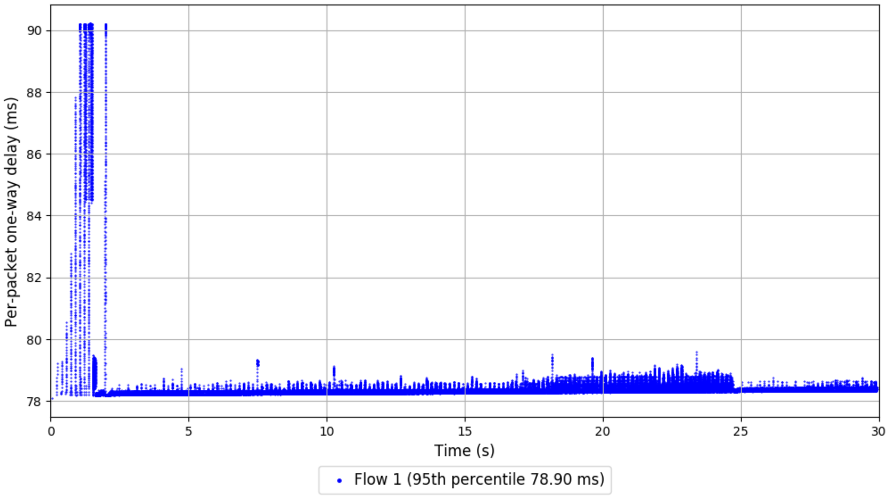
```
Run 9: Statistics of TCP Vegas

Start at: 2018-06-19 04:10:26
End at: 2018-06-19 04:10:56
Local clock offset: -4.425 ms
Remote clock offset: 10.919 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.67 Mbit/s
95th percentile per-packet one-way delay: 78.904 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 26.67 Mbit/s
95th percentile per-packet one-way delay: 78.904 ms
Loss rate: 0.64%
```

Run 9: Report of TCP Vegas — Data Link



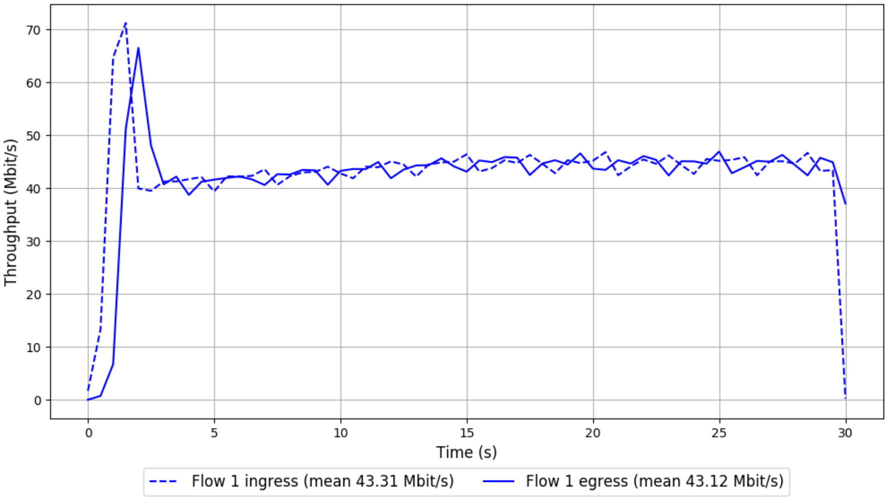


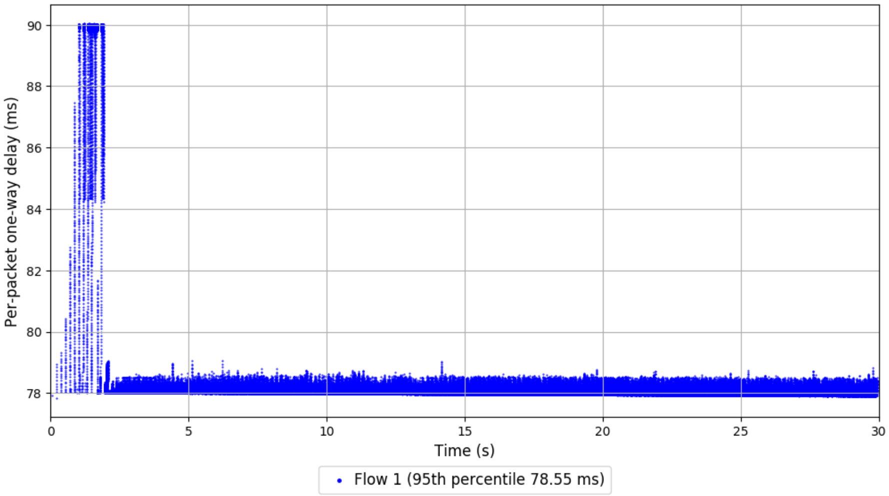
```
Run 10: Statistics of TCP Vegas

Start at: 2018-06-19 04:29:05
End at: 2018-06-19 04:29:35
Local clock offset: -7.184 ms
Remote clock offset: 7.609 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.12 Mbit/s
95th percentile per-packet one-way delay: 78.552 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 43.12 Mbit/s
95th percentile per-packet one-way delay: 78.552 ms
Loss rate: 0.97%
```

Run 10: Report of TCP Vegas — Data Link



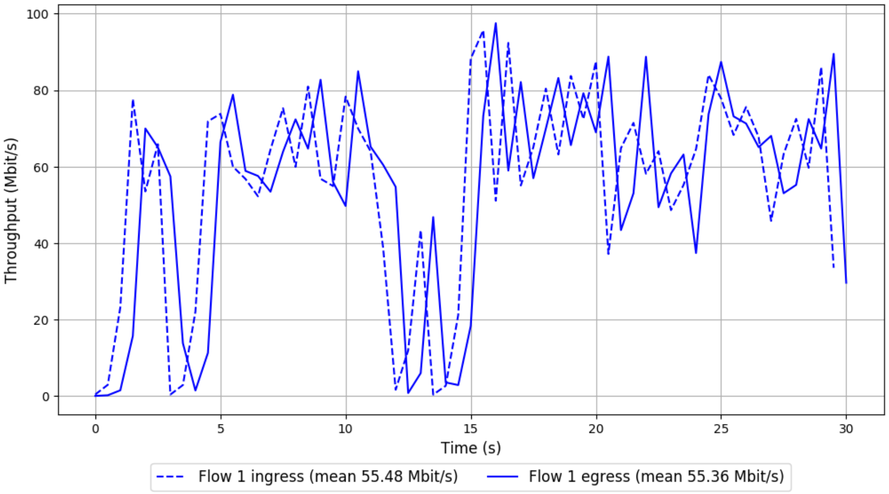


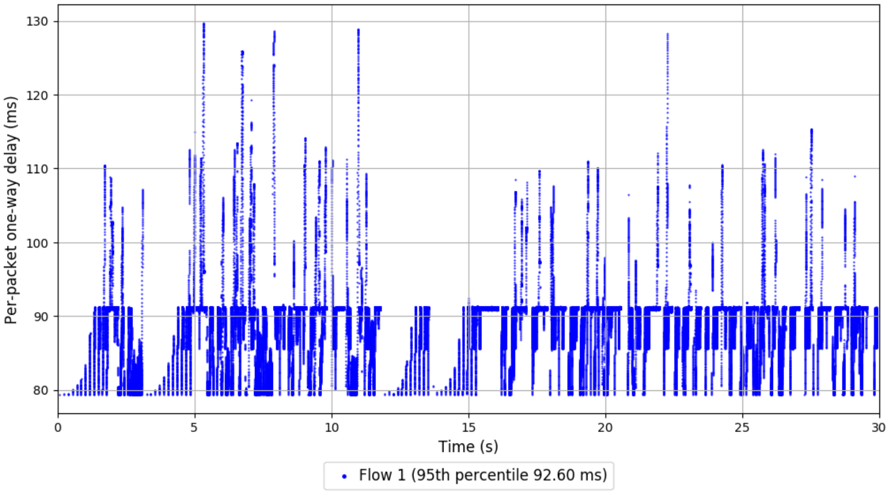
```
Run 1: Statistics of Verus

Start at: 2018-06-19 01:55:24
End at: 2018-06-19 01:55:54
Local clock offset: -2.33 ms
Remote clock offset: 11.975 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.36 Mbit/s
95th percentile per-packet one-way delay: 92.599 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 55.36 Mbit/s
95th percentile per-packet one-way delay: 92.599 ms
Loss rate: 0.47%
```

Run 1: Report of Verus — Data Link



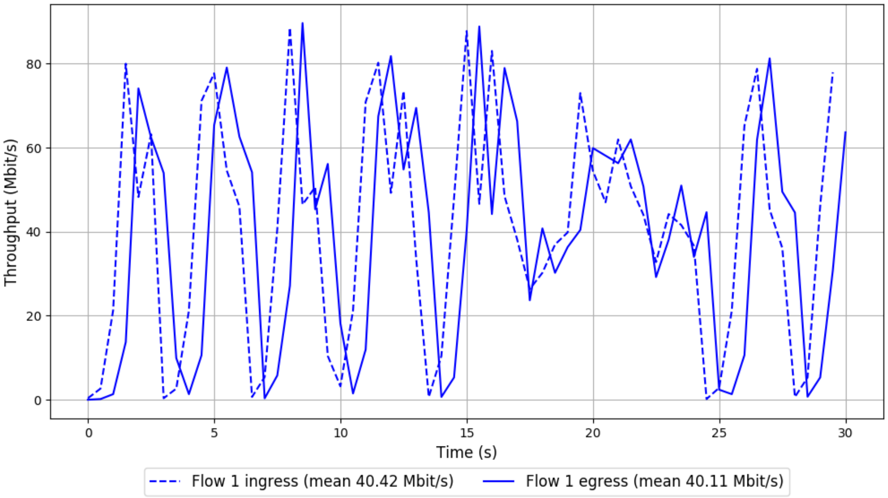


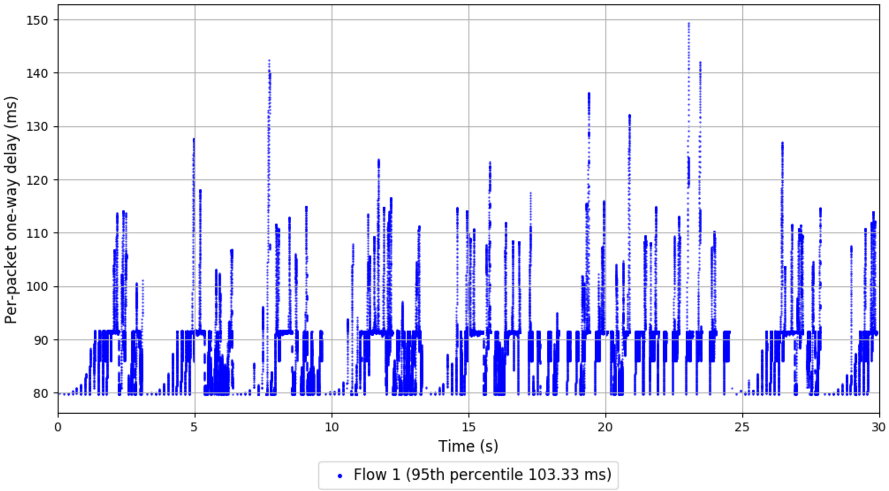
```
Run 2: Statistics of Verus

Start at: 2018-06-19 02:13:50
End at: 2018-06-19 02:14:20
Local clock offset: -1.991 ms
Remote clock offset: 11.29 ms

# Below is generated by plot.py at 2018-06-19 05:03:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 103.330 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 40.11 Mbit/s
95th percentile per-packet one-way delay: 103.330 ms
Loss rate: 1.30%
```

Run 2: Report of Verus — Data Link



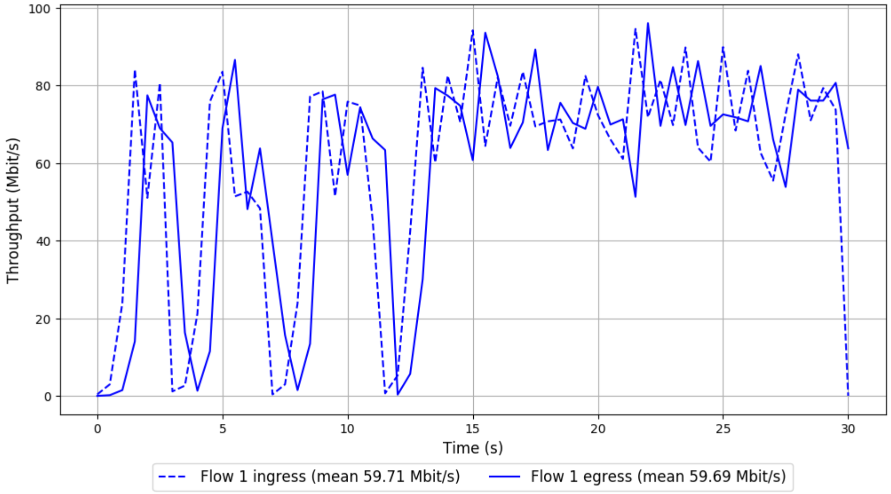


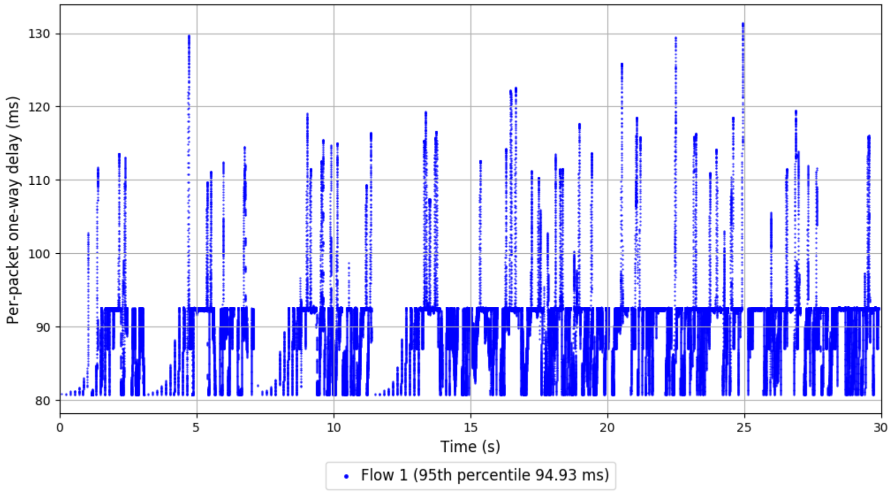
```
Run 3: Statistics of Verus

Start at: 2018-06-19 02:32:24
End at: 2018-06-19 02:32:54
Local clock offset: -1.796 ms
Remote clock offset: 10.482 ms

# Below is generated by plot.py at 2018-06-19 05:03:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.69 Mbit/s
95th percentile per-packet one-way delay: 94.933 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 59.69 Mbit/s
95th percentile per-packet one-way delay: 94.933 ms
Loss rate: 0.69%
```

Run 3: Report of Verus — Data Link



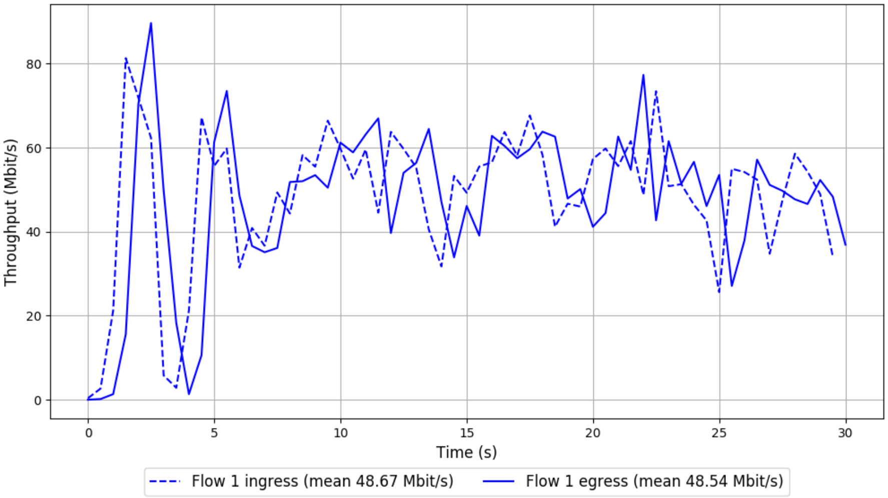


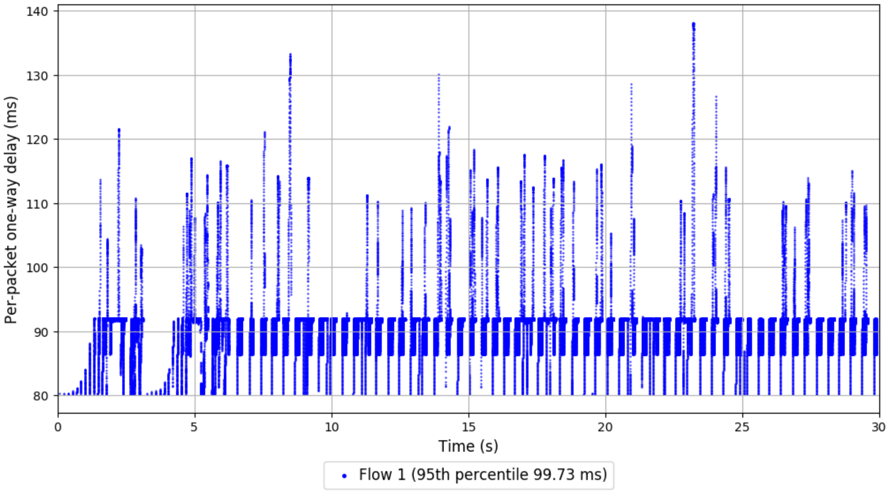
```
Run 4: Statistics of Verus

Start at: 2018-06-19 02:51:00
End at: 2018-06-19 02:51:30
Local clock offset: -6.769 ms
Remote clock offset: 5.815 ms

# Below is generated by plot.py at 2018-06-19 05:03:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.54 Mbit/s
95th percentile per-packet one-way delay: 99.734 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 48.54 Mbit/s
95th percentile per-packet one-way delay: 99.734 ms
Loss rate: 0.43%
```

Run 4: Report of Verus — Data Link



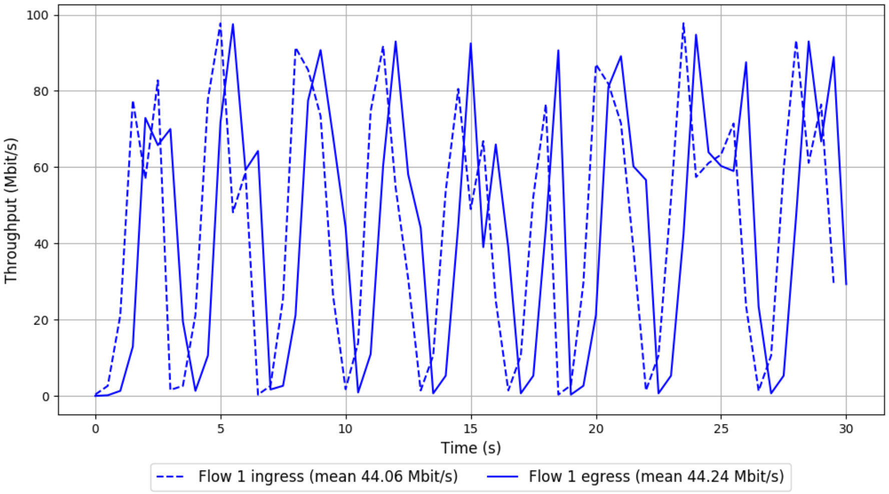


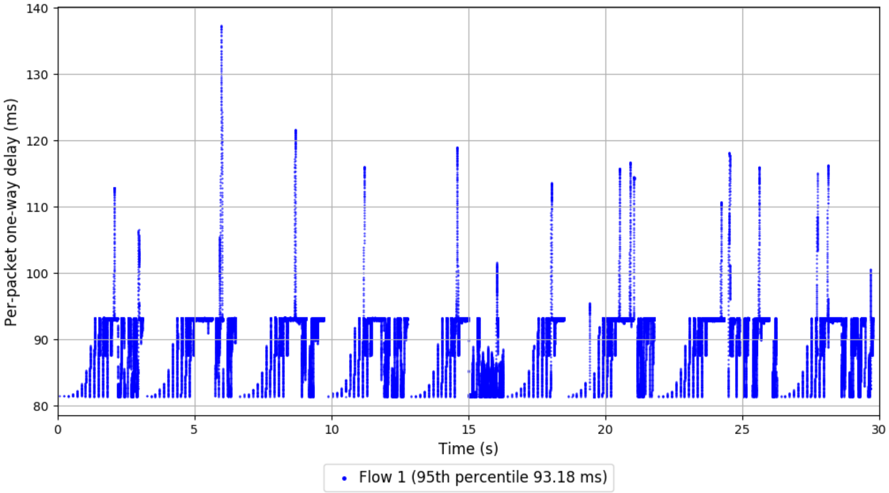
```
Run 5: Statistics of Verus

Start at: 2018-06-19 03:09:42
End at: 2018-06-19 03:10:12
Local clock offset: -7.56 ms
Remote clock offset: 2.092 ms

# Below is generated by plot.py at 2018-06-19 05:03:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.24 Mbit/s
95th percentile per-packet one-way delay: 93.183 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 44.24 Mbit/s
95th percentile per-packet one-way delay: 93.183 ms
Loss rate: 0.12%
```

Run 5: Report of Verus — Data Link



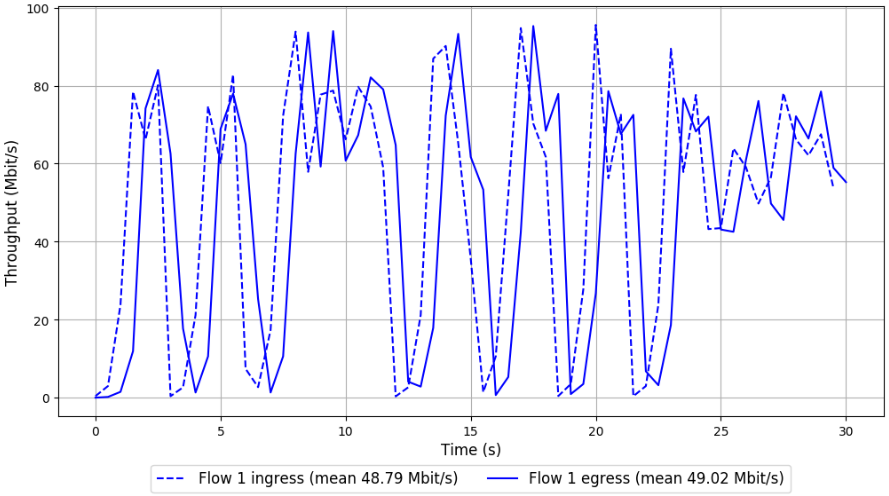


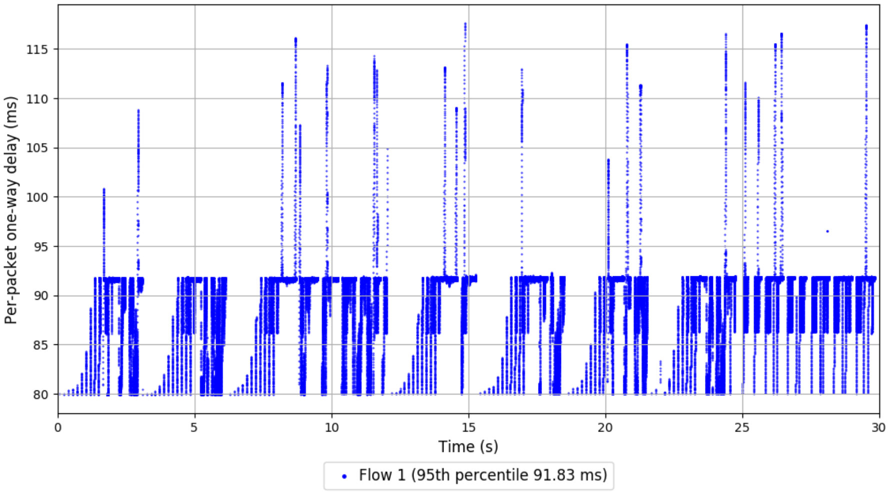
```
Run 6: Statistics of Verus

Start at: 2018-06-19 03:28:26
End at: 2018-06-19 03:28:56
Local clock offset: -7.665 ms
Remote clock offset: 11.6 ms

# Below is generated by plot.py at 2018-06-19 05:03:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 49.02 Mbit/s
95th percentile per-packet one-way delay: 91.834 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 49.02 Mbit/s
95th percentile per-packet one-way delay: 91.834 ms
Loss rate: 0.35%
```

Run 6: Report of Verus — Data Link



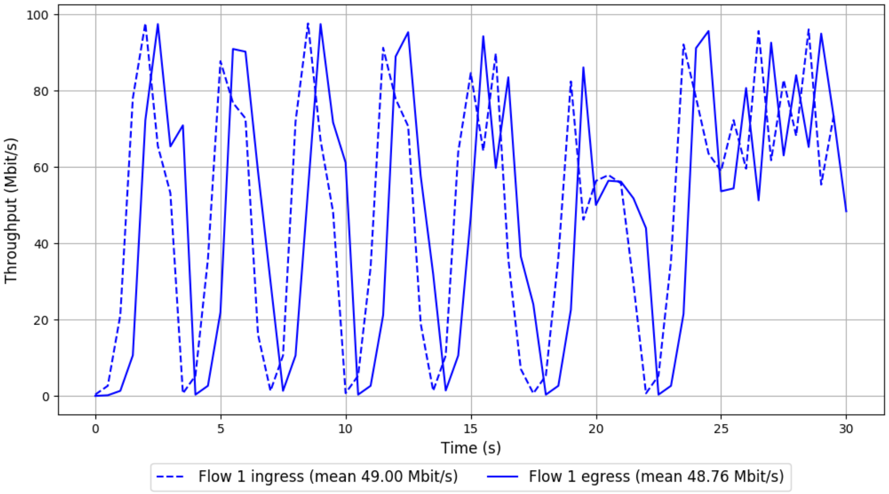


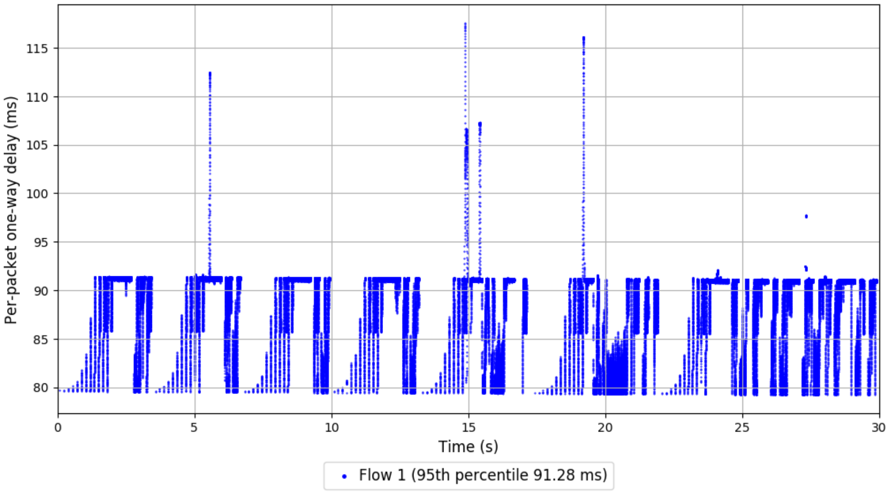
```
Run 7: Statistics of Verus

Start at: 2018-06-19 03:47:07
End at: 2018-06-19 03:47:37
Local clock offset: -3.301 ms
Remote clock offset: 14.873 ms

# Below is generated by plot.py at 2018-06-19 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 48.76 Mbit/s
95th percentile per-packet one-way delay: 91.285 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 48.76 Mbit/s
95th percentile per-packet one-way delay: 91.285 ms
Loss rate: 0.97%
```

Run 7: Report of Verus — Data Link



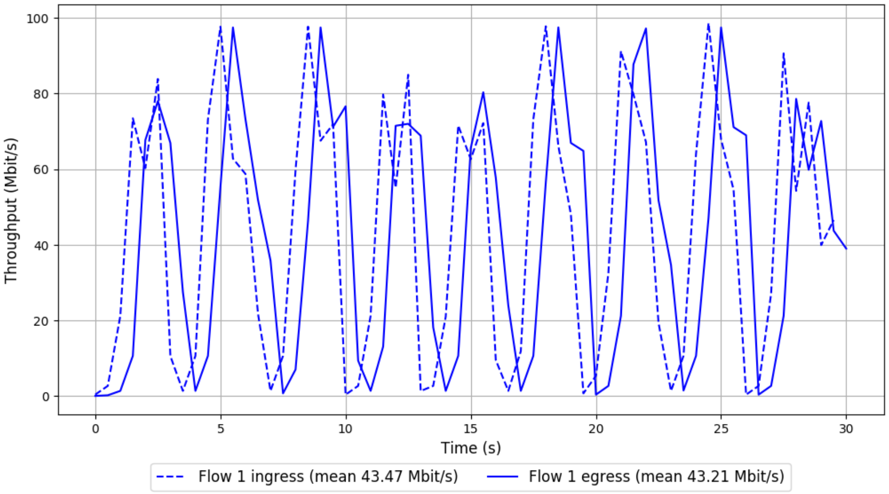


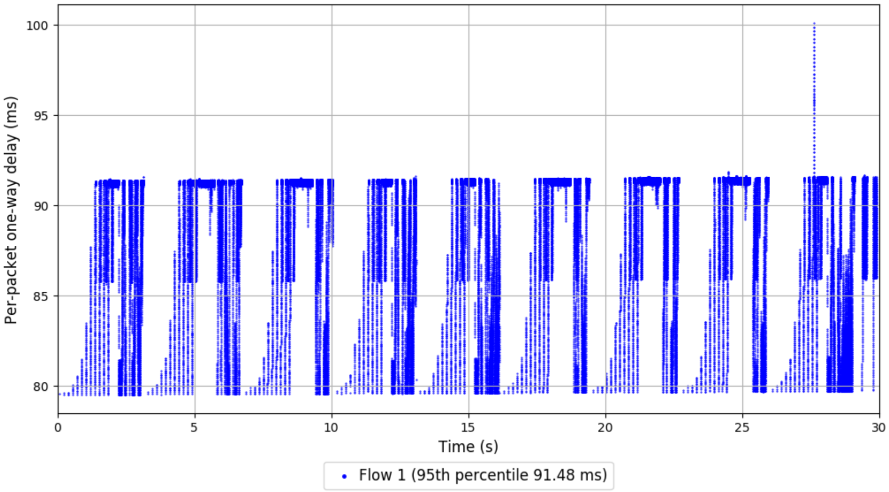
```
Run 8: Statistics of Verus

Start at: 2018-06-19 04:05:44
End at: 2018-06-19 04:06:14
Local clock offset: -2.554 ms
Remote clock offset: 12.097 ms

# Below is generated by plot.py at 2018-06-19 05:04:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 43.21 Mbit/s
95th percentile per-packet one-way delay: 91.478 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 43.21 Mbit/s
95th percentile per-packet one-way delay: 91.478 ms
Loss rate: 0.91%
```

Run 8: Report of Verus — Data Link



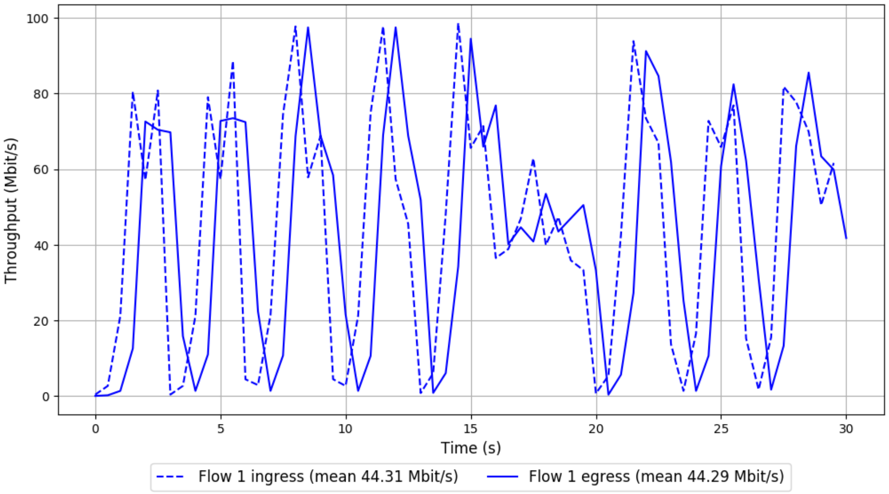


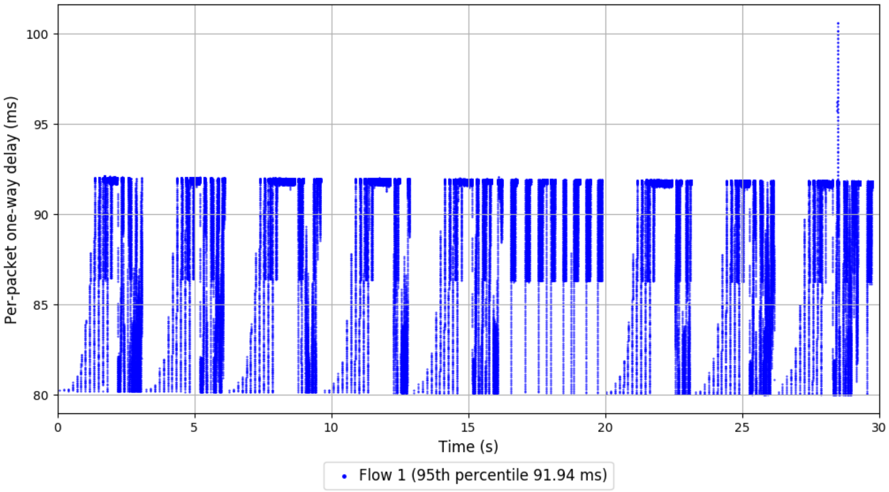
```
Run 9: Statistics of Verus

Start at: 2018-06-19 04:24:24
End at: 2018-06-19 04:24:54
Local clock offset: -6.825 ms
Remote clock offset: 9.349 ms

# Below is generated by plot.py at 2018-06-19 05:04:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.29 Mbit/s
95th percentile per-packet one-way delay: 91.935 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 44.29 Mbit/s
95th percentile per-packet one-way delay: 91.935 ms
Loss rate: 1.09%
```

Run 9: Report of Verus — Data Link



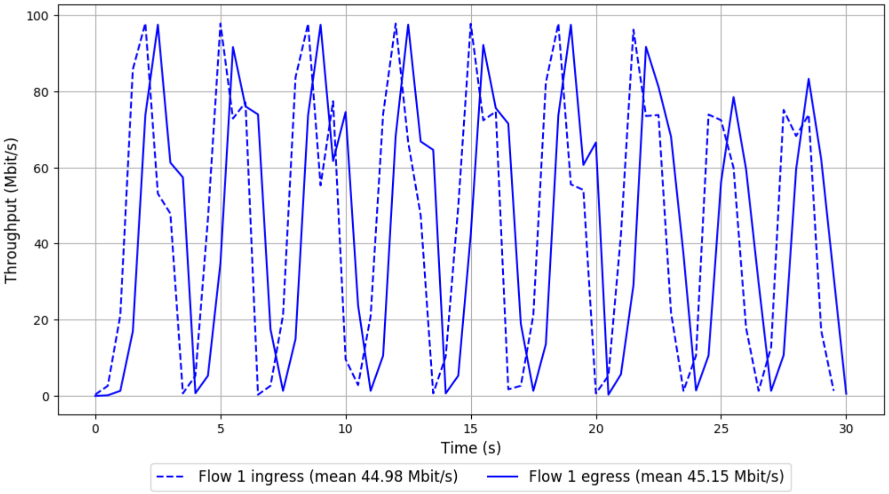


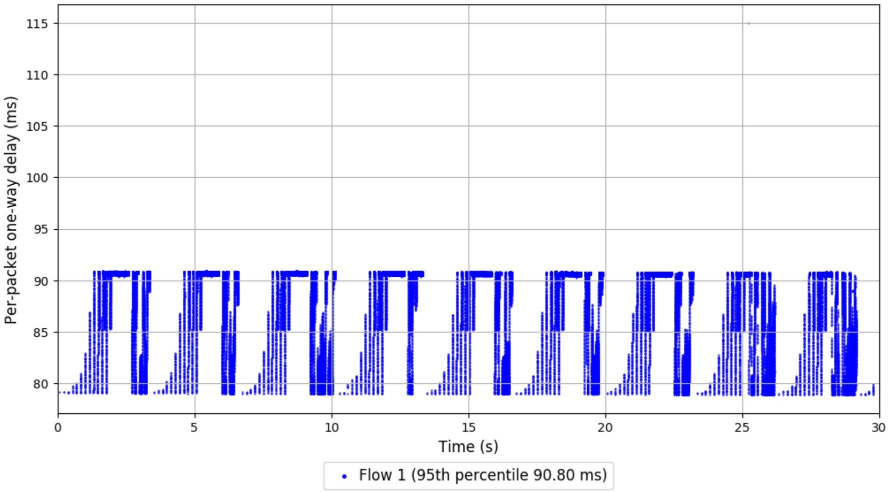
```
Run 10: Statistics of Verus

Start at: 2018-06-19 04:43:03
End at: 2018-06-19 04:43:33
Local clock offset: -3.863 ms
Remote clock offset: 3.847 ms

# Below is generated by plot.py at 2018-06-19 05:04:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 45.15 Mbit/s
95th percentile per-packet one-way delay: 90.798 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 45.15 Mbit/s
95th percentile per-packet one-way delay: 90.798 ms
Loss rate: 0.15%
```

Run 10: Report of Verus — Data Link



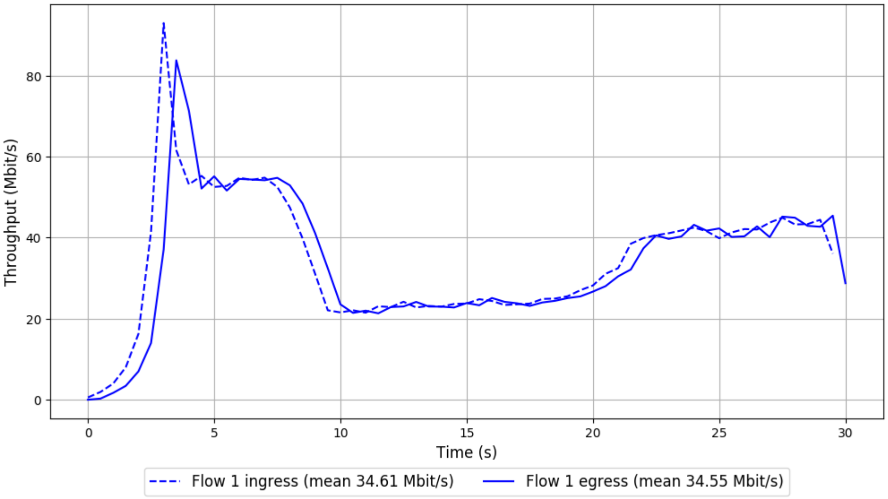


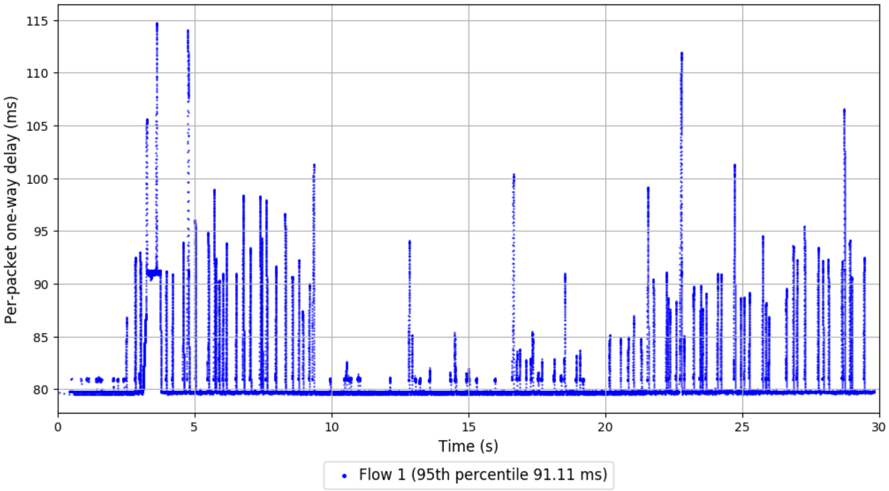
```
Run 1: Statistics of PCC-Vivace

Start at: 2018-06-19 01:54:15
End at: 2018-06-19 01:54:45
Local clock offset: -2.281 ms
Remote clock offset: 11.621 ms

# Below is generated by plot.py at 2018-06-19 05:04:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 91.107 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 34.55 Mbit/s
95th percentile per-packet one-way delay: 91.107 ms
Loss rate: 0.69%
```

Run 1: Report of PCC-Vivace — Data Link



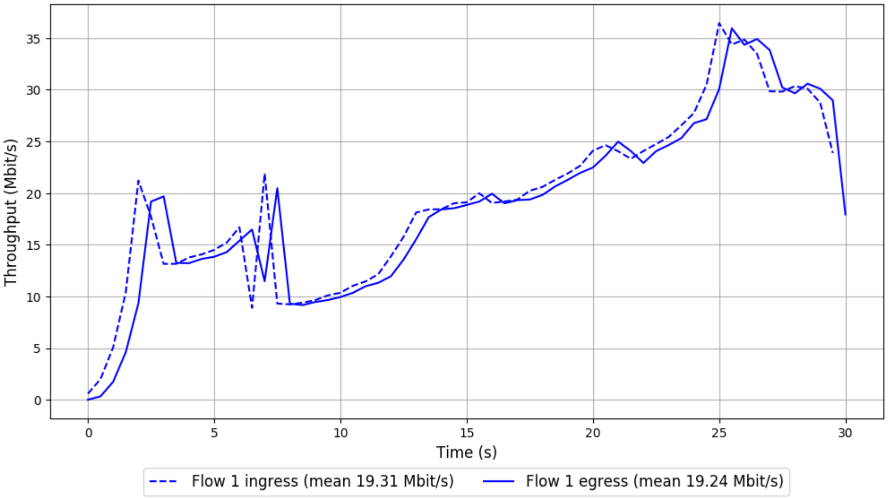


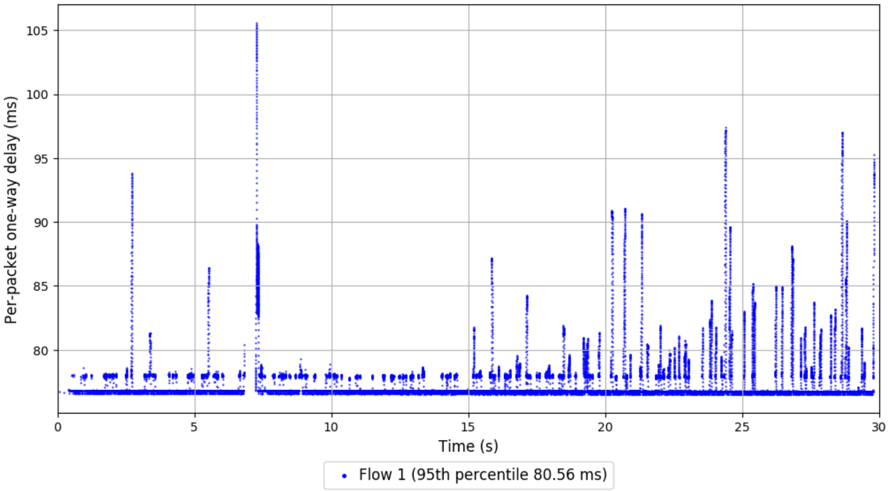
```
Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 02:12:42
End at: 2018-06-19 02:13:12
Local clock offset: -2.081 ms
Remote clock offset: 11.626 ms

# Below is generated by plot.py at 2018-06-19 05:04:06
# Datalink statistics
-- Total of 1 flow:
Average throughput: 19.24 Mbit/s
95th percentile per-packet one-way delay: 80.556 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 19.24 Mbit/s
95th percentile per-packet one-way delay: 80.556 ms
Loss rate: 0.89%
```

Run 2: Report of PCC-Vivace — Data Link



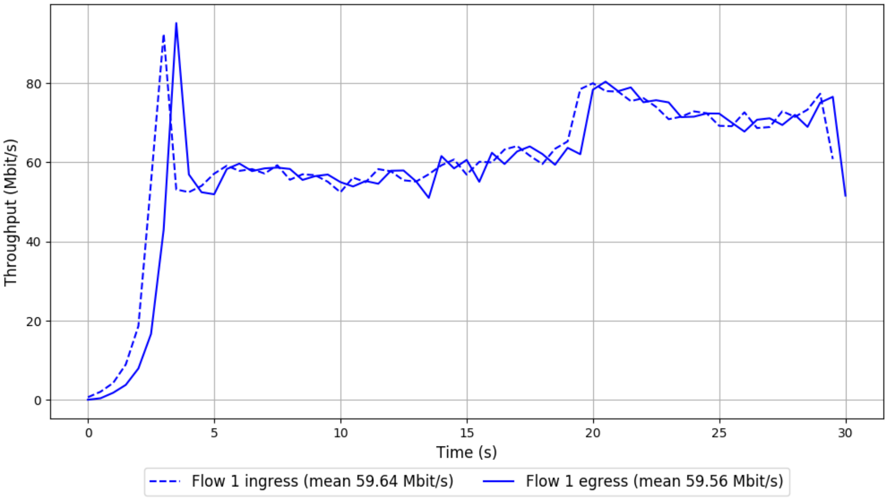


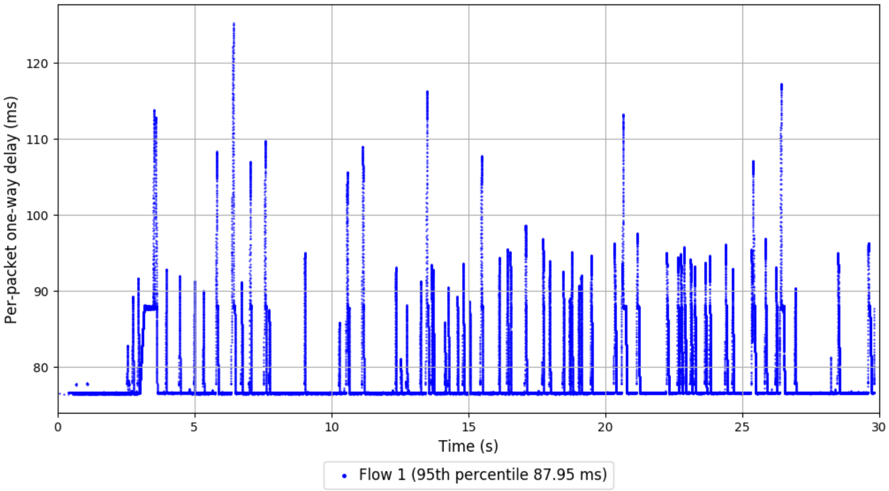
```
Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 02:31:13
End at: 2018-06-19 02:31:43
Local clock offset: -1.786 ms
Remote clock offset: 12.683 ms

# Below is generated by plot.py at 2018-06-19 05:04:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 59.56 Mbit/s
95th percentile per-packet one-way delay: 87.948 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 59.56 Mbit/s
95th percentile per-packet one-way delay: 87.948 ms
Loss rate: 0.66%
```

Run 3: Report of PCC-Vivace — Data Link



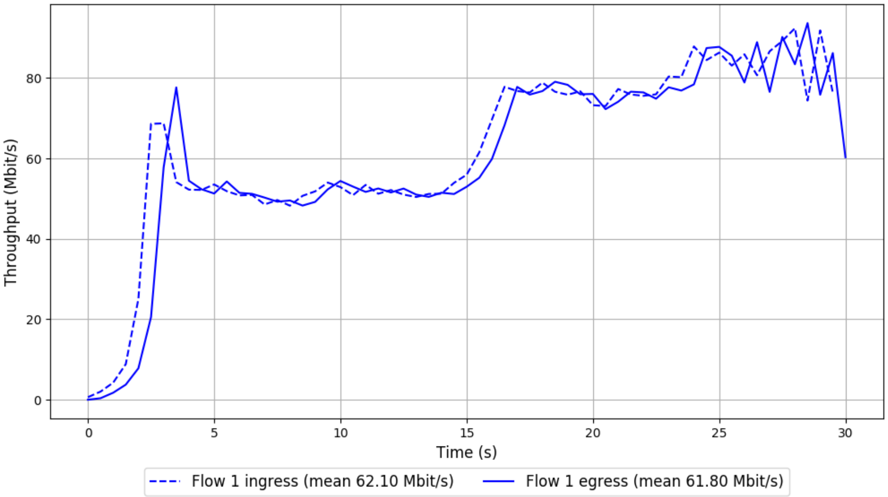


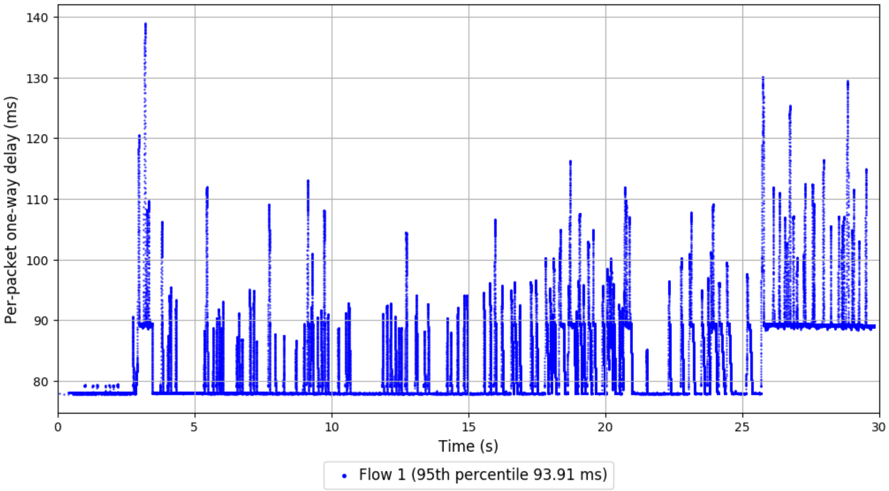
```
Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 02:49:48
End at: 2018-06-19 02:50:18
Local clock offset: -6.592 ms
Remote clock offset: 6.048 ms

# Below is generated by plot.py at 2018-06-19 05:04:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 61.80 Mbit/s
95th percentile per-packet one-way delay: 93.905 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 61.80 Mbit/s
95th percentile per-packet one-way delay: 93.905 ms
Loss rate: 1.09%
```

Run 4: Report of PCC-Vivace — Data Link



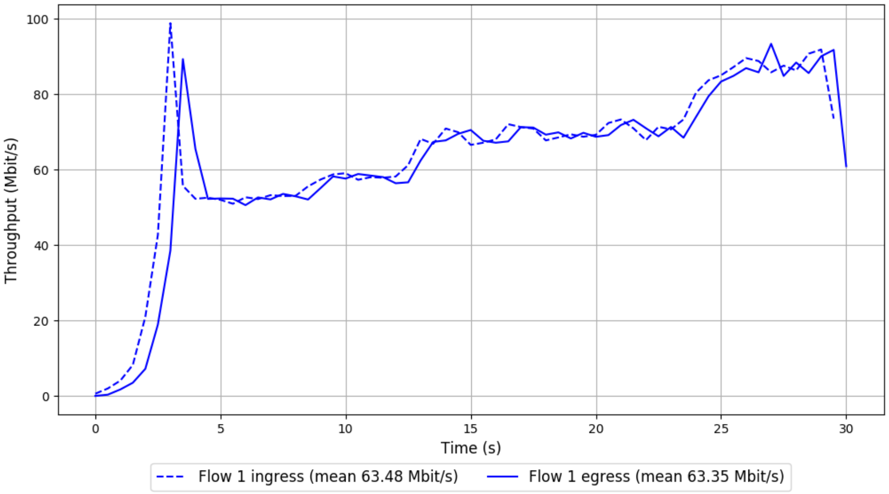


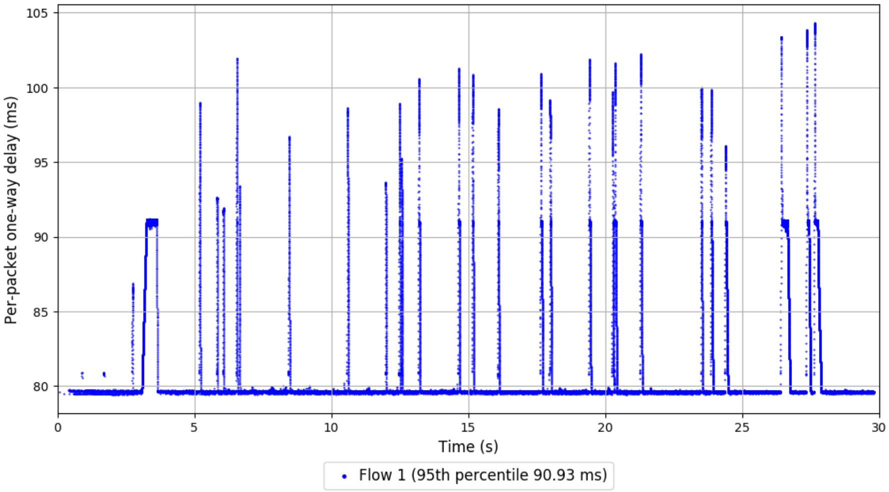
```
Run 5: Statistics of PCC-Vivace

Start at: 2018-06-19 03:08:30
End at: 2018-06-19 03:09:00
Local clock offset: -7.62 ms
Remote clock offset: 3.389 ms

# Below is generated by plot.py at 2018-06-19 05:04:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 63.35 Mbit/s
95th percentile per-packet one-way delay: 90.931 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 63.35 Mbit/s
95th percentile per-packet one-way delay: 90.931 ms
Loss rate: 0.73%
```

Run 5: Report of PCC-Vivace — Data Link



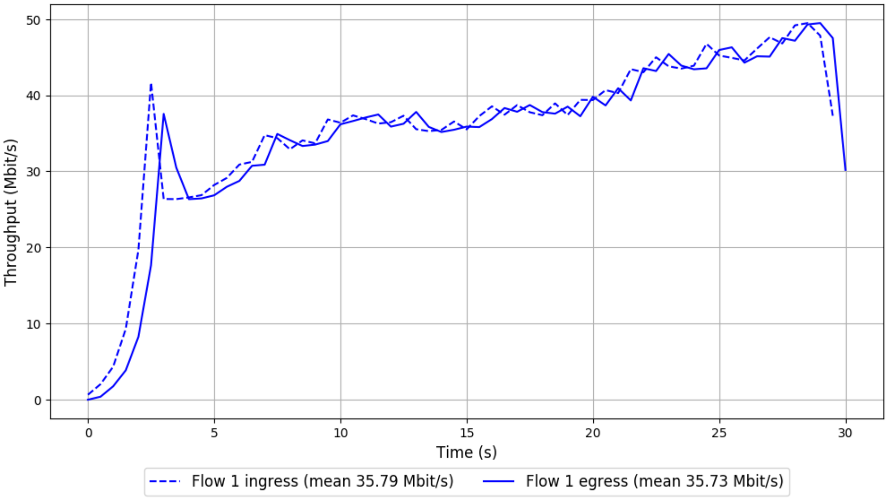


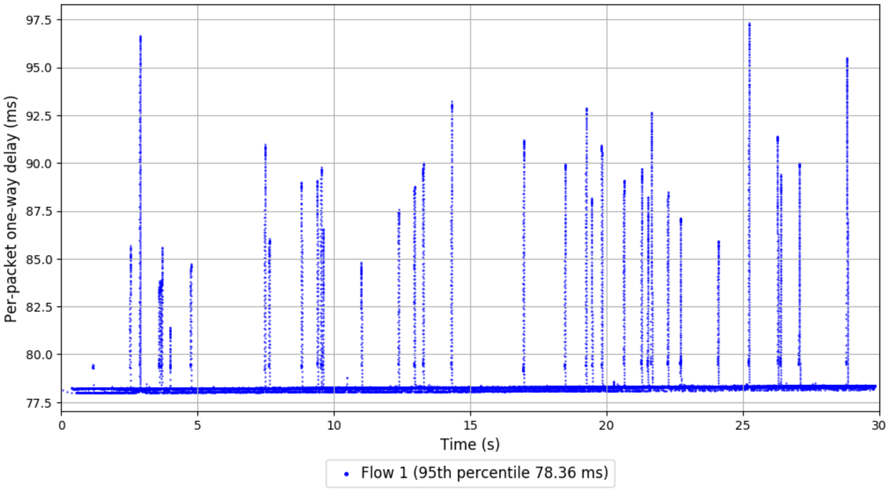
```
Run 6: Statistics of PCC-Vivace

Start at: 2018-06-19 03:27:16
End at: 2018-06-19 03:27:46
Local clock offset: -7.624 ms
Remote clock offset: 11.271 ms

# Below is generated by plot.py at 2018-06-19 05:04:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 78.356 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 78.356 ms
Loss rate: 0.69%
```

Run 6: Report of PCC-Vivace — Data Link



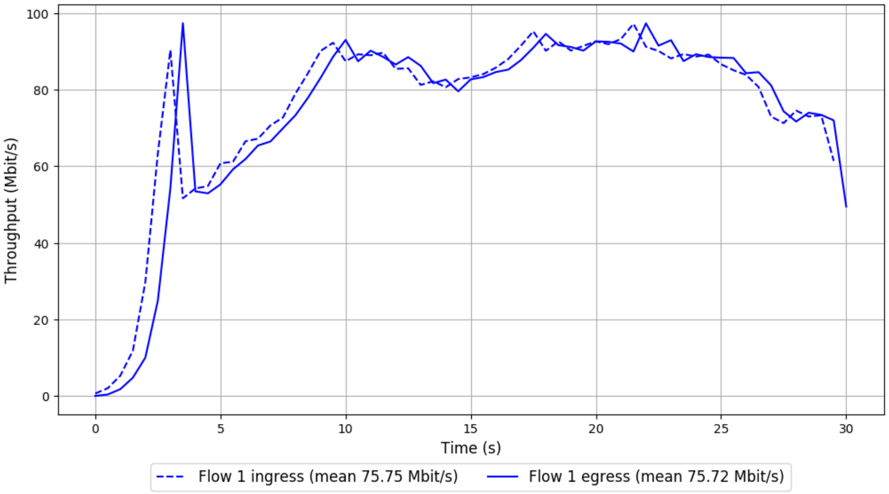


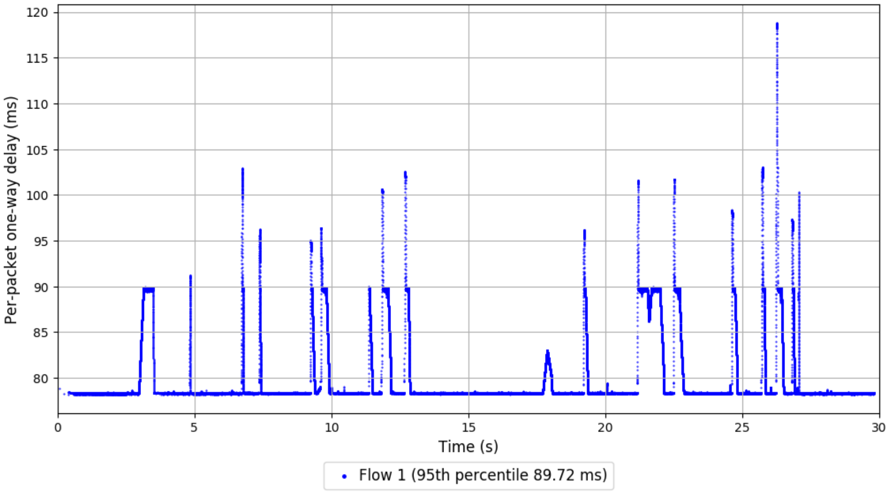
```
Run 7: Statistics of PCC-Vivace

Start at: 2018-06-19 03:45:55
End at: 2018-06-19 03:46:25
Local clock offset: -3.515 ms
Remote clock offset: 13.984 ms

# Below is generated by plot.py at 2018-06-19 05:04:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.72 Mbit/s
95th percentile per-packet one-way delay: 89.723 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 75.72 Mbit/s
95th percentile per-packet one-way delay: 89.723 ms
Loss rate: 0.56%
```

Run 7: Report of PCC-Vivace — Data Link



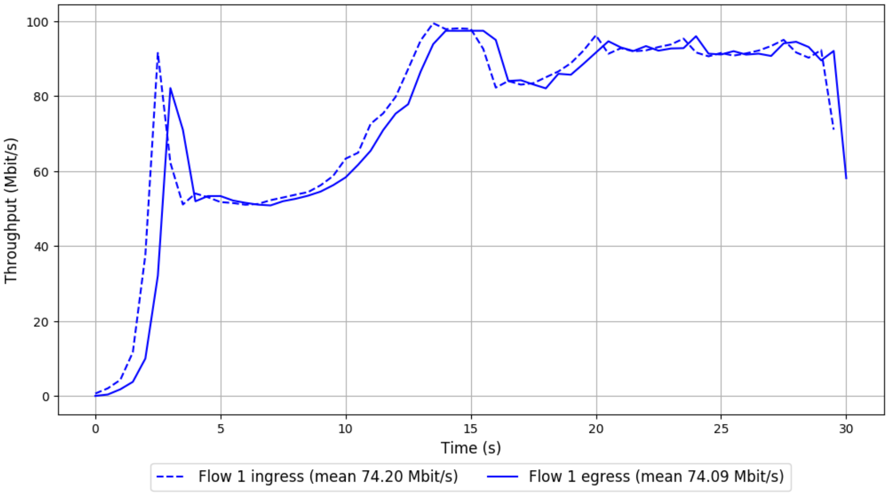


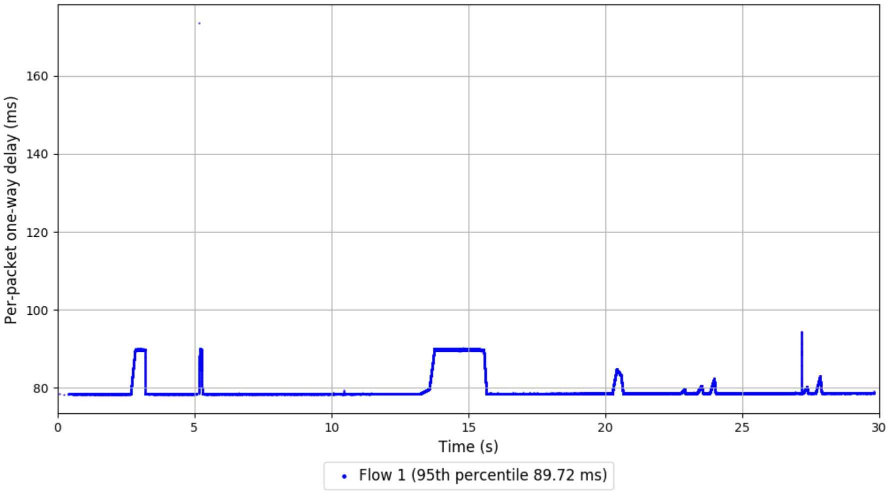
```
Run 8: Statistics of PCC-Vivace

Start at: 2018-06-19 04:04:33
End at: 2018-06-19 04:05:03
Local clock offset: -1.906 ms
Remote clock offset: 11.229 ms

# Below is generated by plot.py at 2018-06-19 05:04:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 74.09 Mbit/s
95th percentile per-packet one-way delay: 89.718 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 74.09 Mbit/s
95th percentile per-packet one-way delay: 89.718 ms
Loss rate: 0.67%
```

Run 8: Report of PCC-Vivace — Data Link



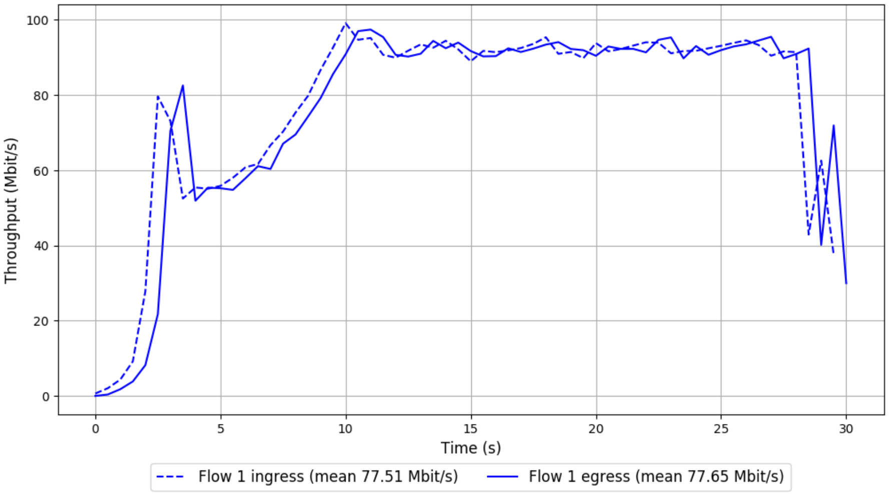


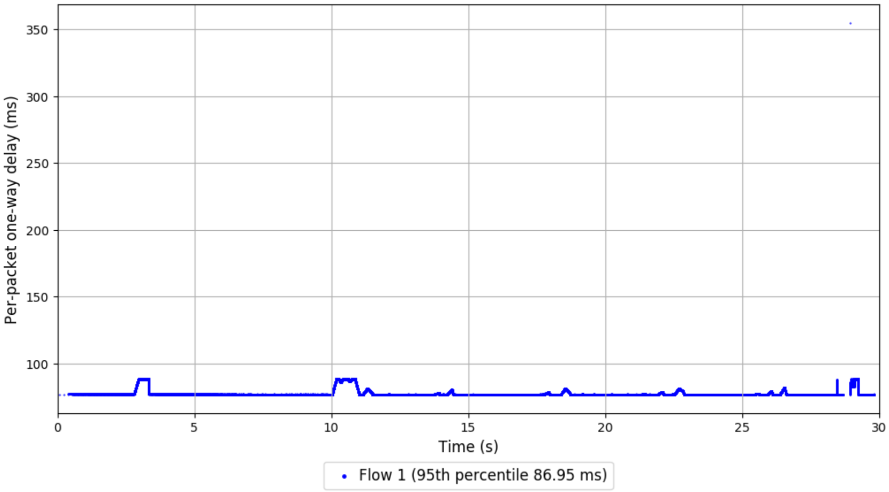
```
Run 9: Statistics of PCC-Vivace

Start at: 2018-06-19 04:23:13
End at: 2018-06-19 04:23:43
Local clock offset: -6.724 ms
Remote clock offset: 9.953 ms

# Below is generated by plot.py at 2018-06-19 05:05:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 77.65 Mbit/s
95th percentile per-packet one-way delay: 86.947 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 77.65 Mbit/s
95th percentile per-packet one-way delay: 86.947 ms
Loss rate: 0.33%
```

Run 9: Report of PCC-Vivace — Data Link



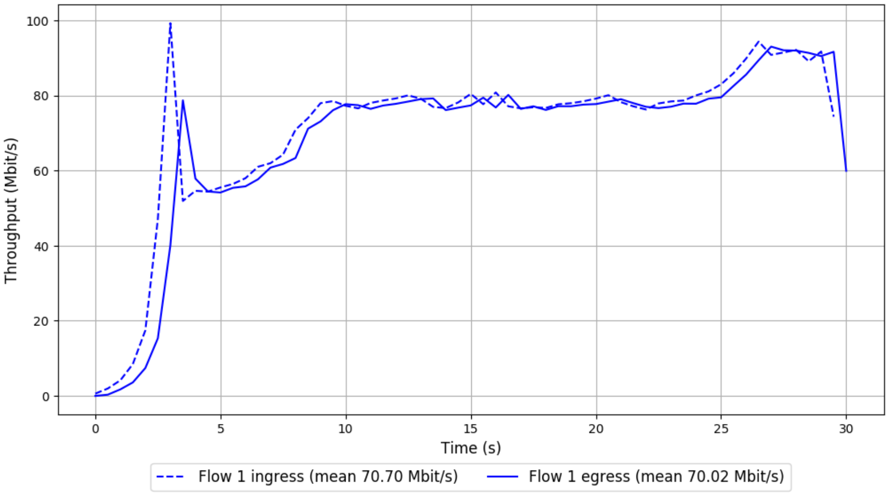


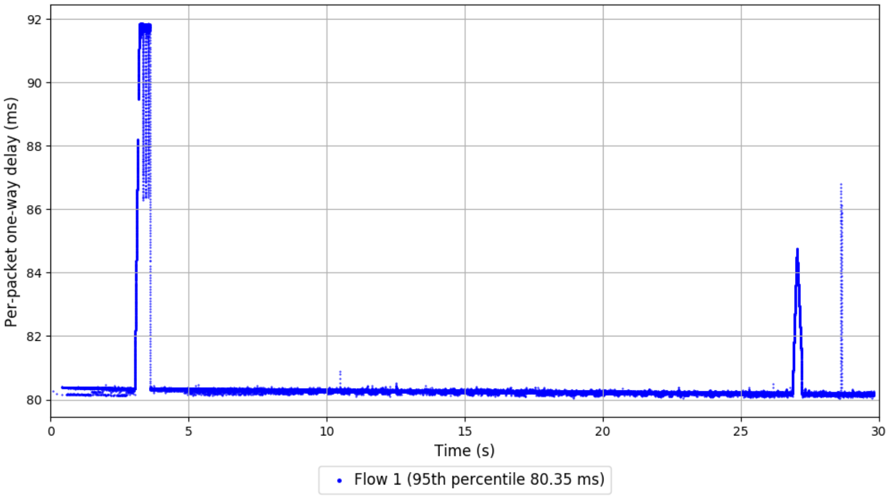
```
Run 10: Statistics of PCC-Vivace

Start at: 2018-06-19 04:41:51
End at: 2018-06-19 04:42:21
Local clock offset: -4.202 ms
Remote clock offset: 4.061 ms

# Below is generated by plot.py at 2018-06-19 05:05:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.02 Mbit/s
95th percentile per-packet one-way delay: 80.349 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 70.02 Mbit/s
95th percentile per-packet one-way delay: 80.349 ms
Loss rate: 1.48%
```

Run 10: Report of PCC-Vivace — Data Link



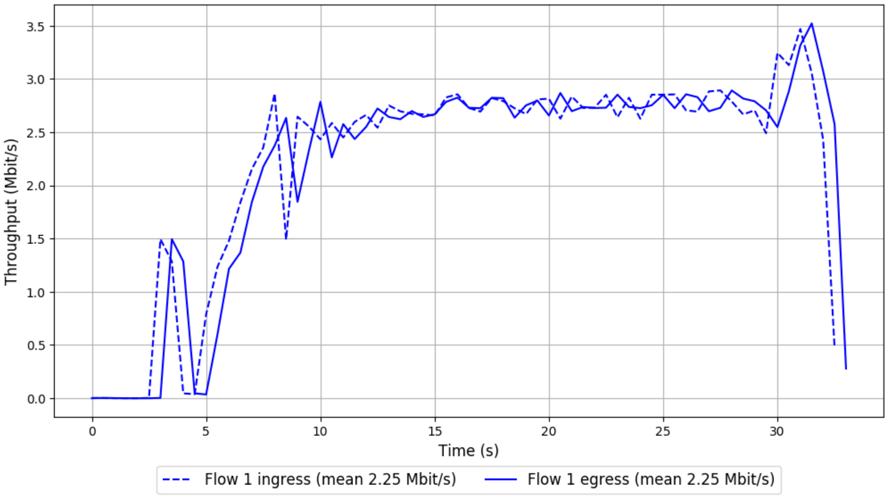


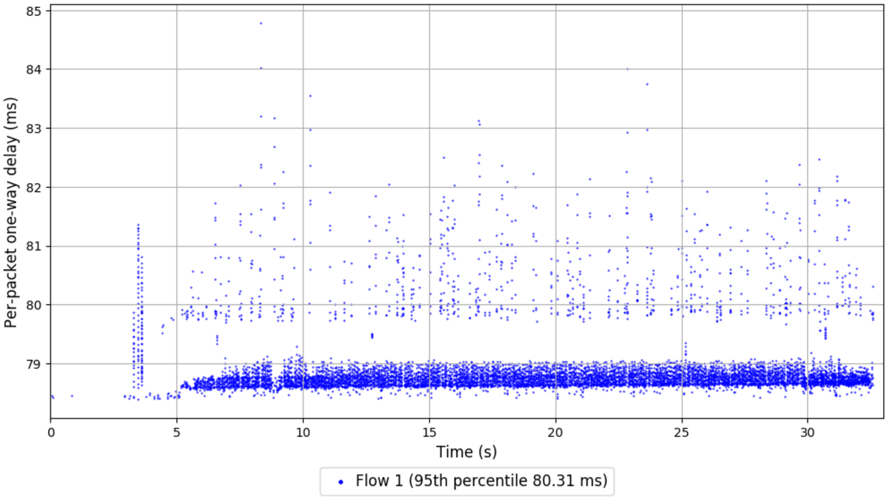
```
Run 1: Statistics of WebRTC media

Start at: 2018-06-19 01:47:26
End at: 2018-06-19 01:47:56
Local clock offset: -2.265 ms
Remote clock offset: 9.785 ms

# Below is generated by plot.py at 2018-06-19 05:05:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 80.307 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 80.307 ms
Loss rate: 0.30%
```

Run 1: Report of WebRTC media — Data Link



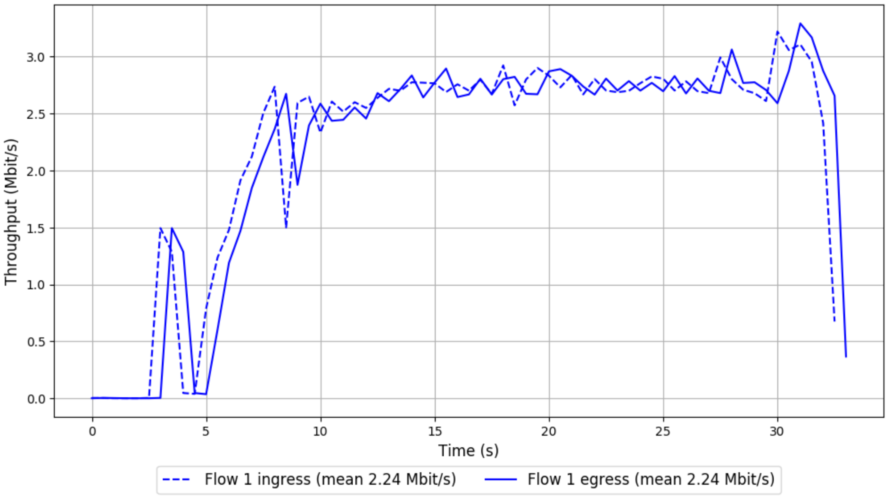


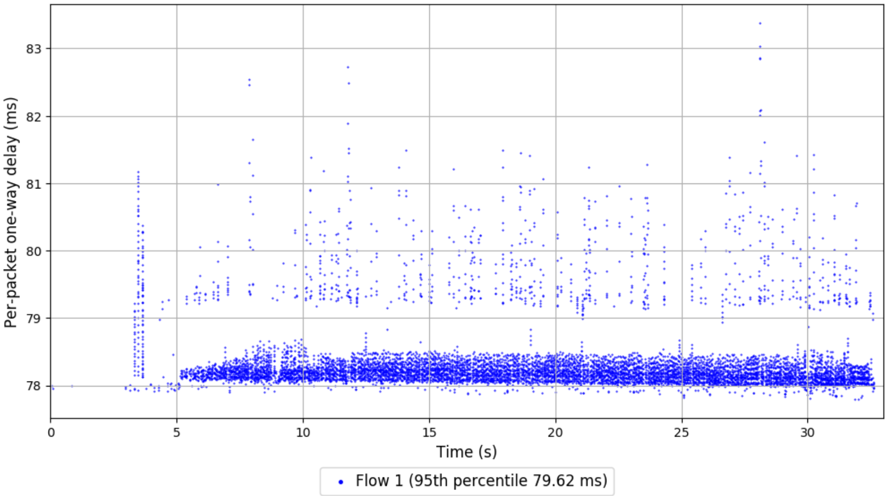
```
Run 2: Statistics of WebRTC media

Start at: 2018-06-19 02:05:52
End at: 2018-06-19 02:06:22
Local clock offset: -2.248 ms
Remote clock offset: 12.382 ms

# Below is generated by plot.py at 2018-06-19 05:05:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 79.622 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 79.622 ms
Loss rate: 0.37%
```

Run 2: Report of WebRTC media — Data Link



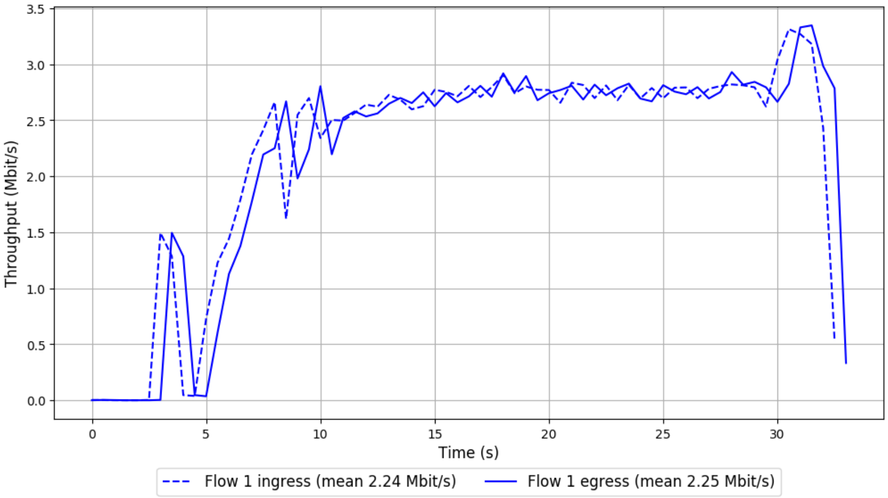


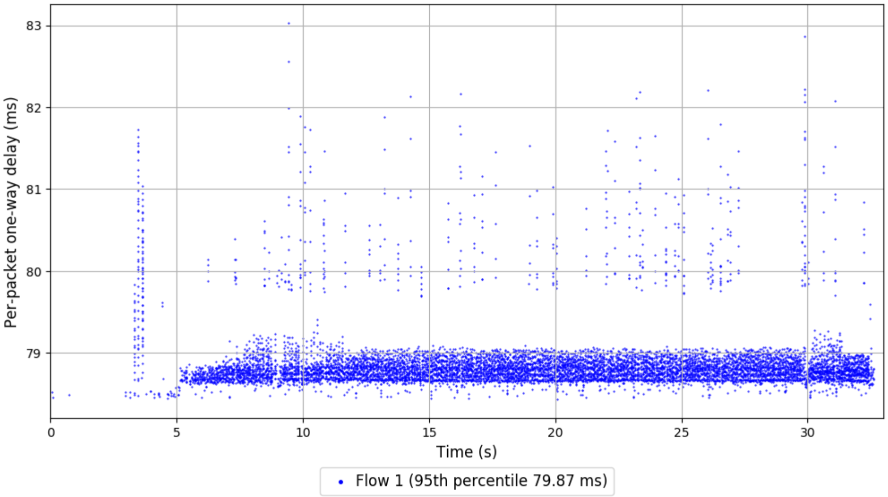
```
Run 3: Statistics of WebRTC media

Start at: 2018-06-19 02:24:20
End at: 2018-06-19 02:24:50
Local clock offset: -1.844 ms
Remote clock offset: 12.342 ms

# Below is generated by plot.py at 2018-06-19 05:05:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 79.873 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 79.873 ms
Loss rate: 0.31%
```

Run 3: Report of WebRTC media — Data Link



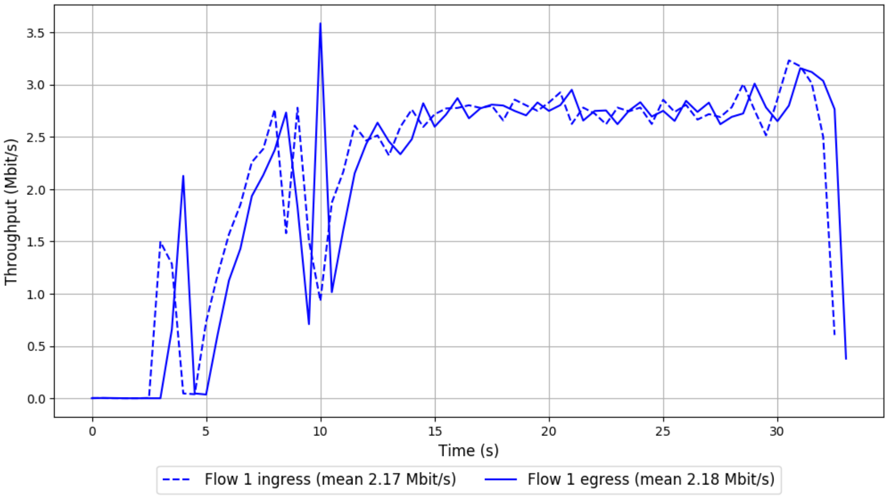


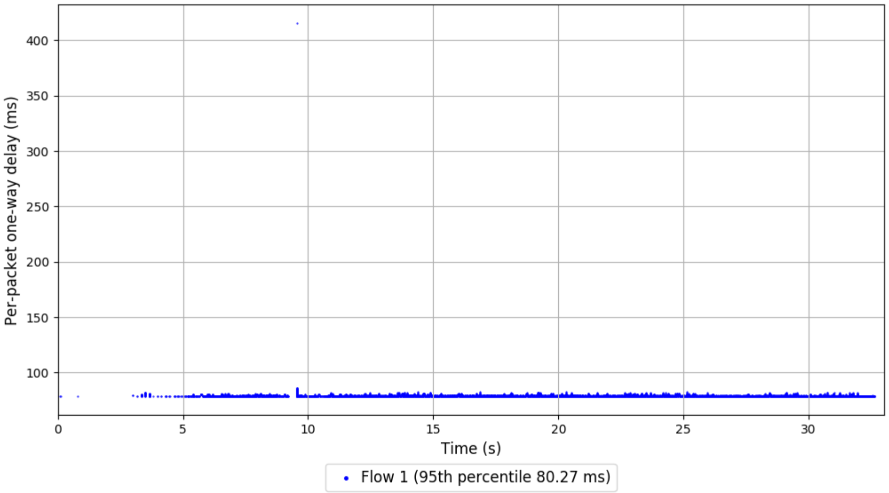
```
Run 4: Statistics of WebRTC media

Start at: 2018-06-19 02:42:53
End at: 2018-06-19 02:43:23
Local clock offset: -5.326 ms
Remote clock offset: 7.65 ms

# Below is generated by plot.py at 2018-06-19 05:05:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 80.268 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 80.268 ms
Loss rate: 0.33%
```

Run 4: Report of WebRTC media — Data Link



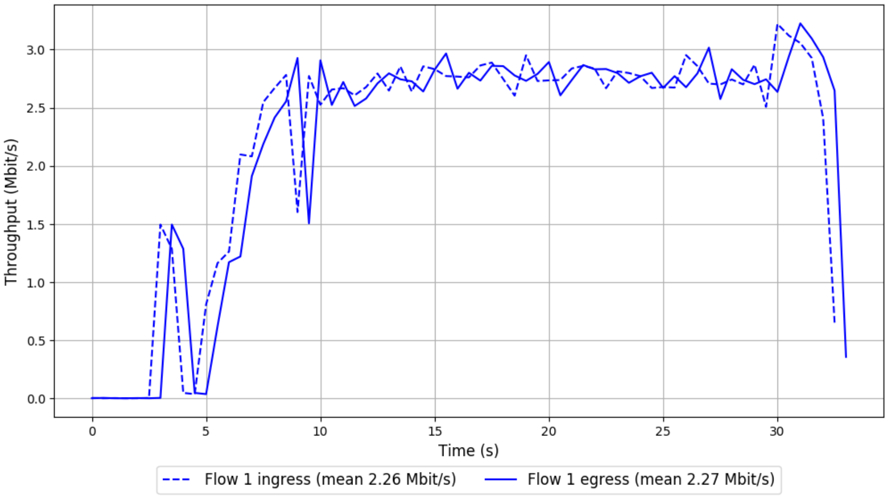


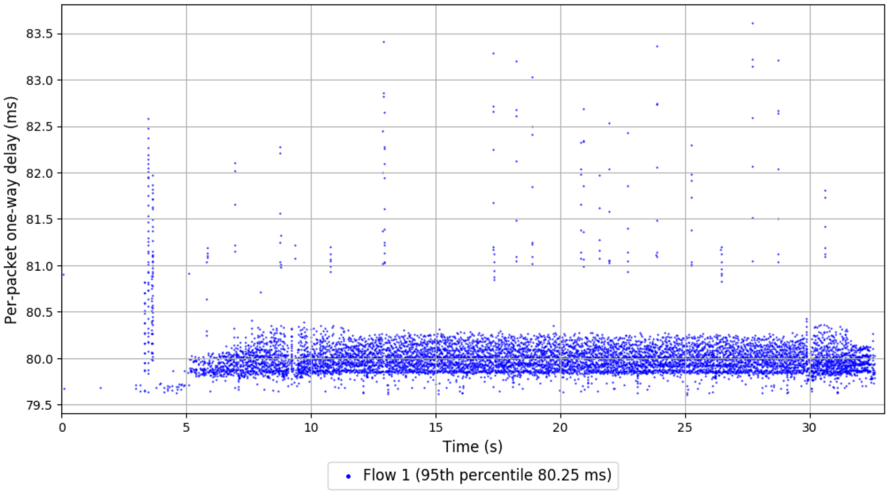
```
Run 5: Statistics of WebRTC media

Start at: 2018-06-19 03:01:35
End at: 2018-06-19 03:02:05
Local clock offset: -7.851 ms
Remote clock offset: 3.882 ms

# Below is generated by plot.py at 2018-06-19 05:05:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 80.247 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 80.247 ms
Loss rate: 0.36%
```

Run 5: Report of WebRTC media — Data Link



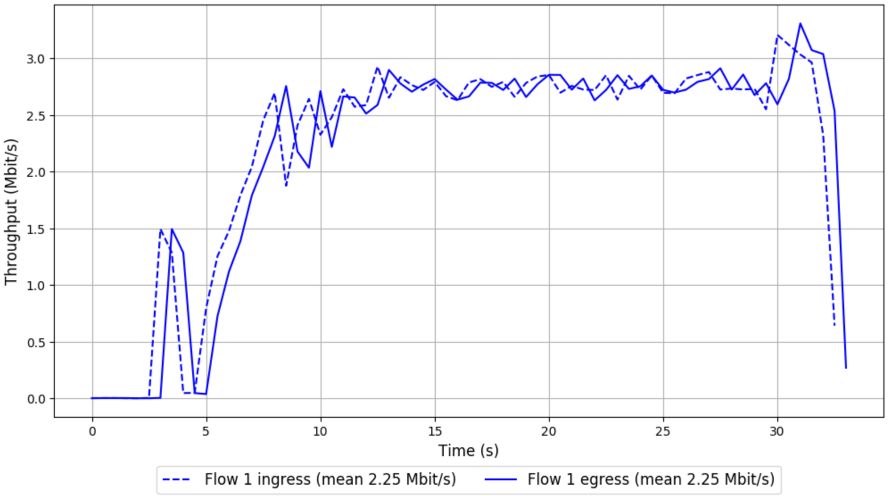


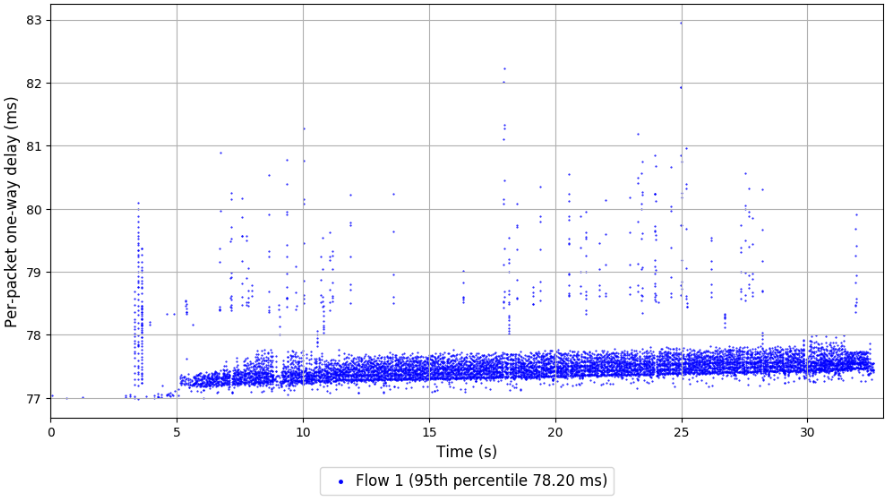
```
Run 6: Statistics of WebRTC media

Start at: 2018-06-19 03:20:17
End at: 2018-06-19 03:20:47
Local clock offset: -7.49 ms
Remote clock offset: 8.702 ms

# Below is generated by plot.py at 2018-06-19 05:05:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 78.196 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 78.196 ms
Loss rate: 0.37%
```

Run 6: Report of WebRTC media — Data Link



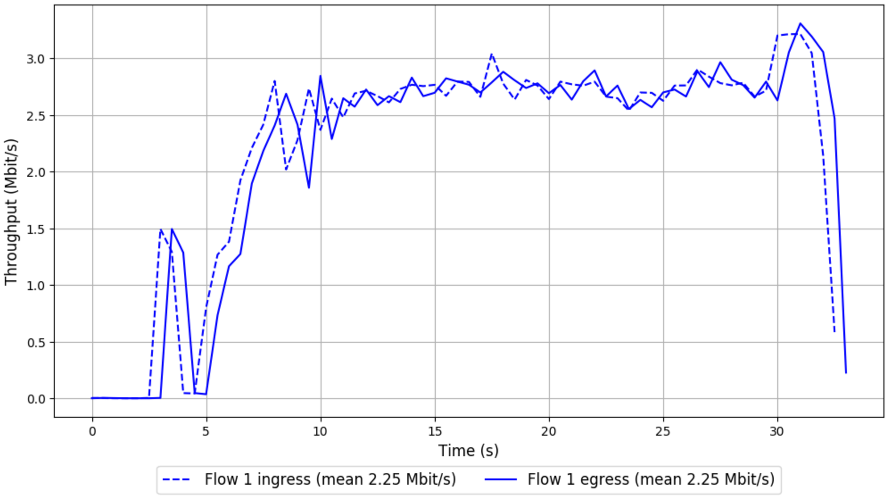


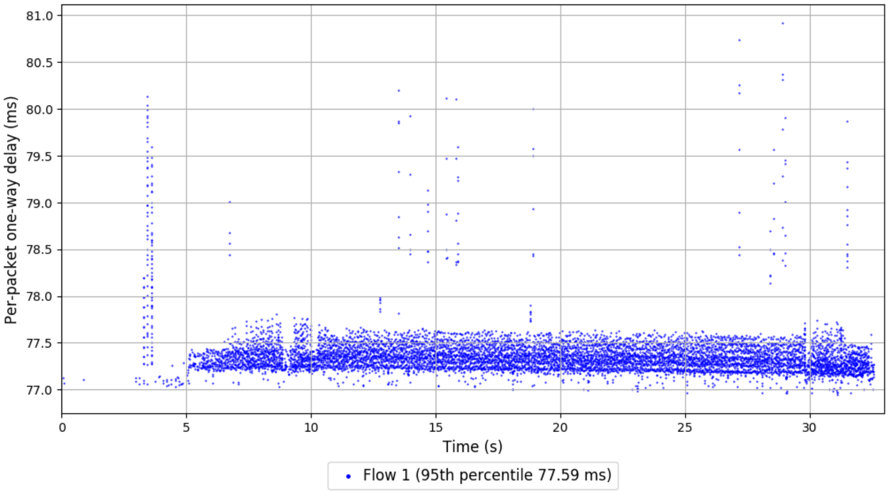
```
Run 7: Statistics of WebRTC media

Start at: 2018-06-19 03:39:01
End at: 2018-06-19 03:39:31
Local clock offset: -5.314 ms
Remote clock offset: 13.957 ms

# Below is generated by plot.py at 2018-06-19 05:05:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 77.594 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 77.594 ms
Loss rate: 0.37%
```

Run 7: Report of WebRTC media — Data Link



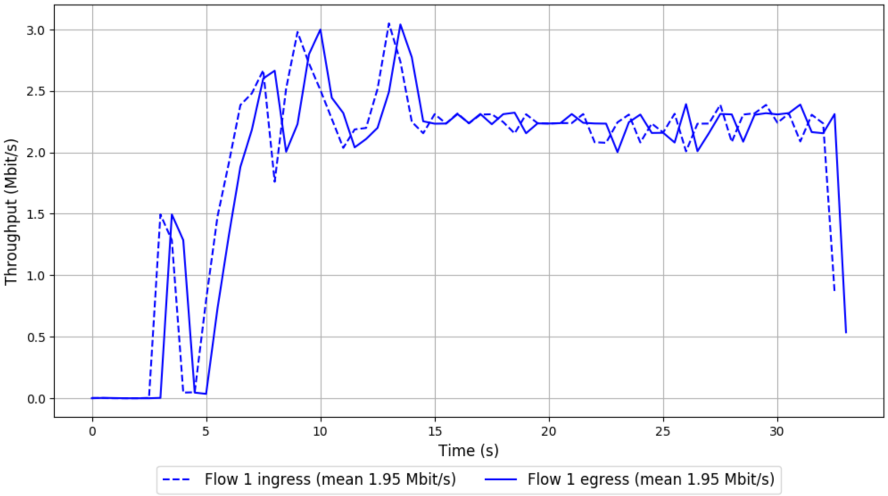


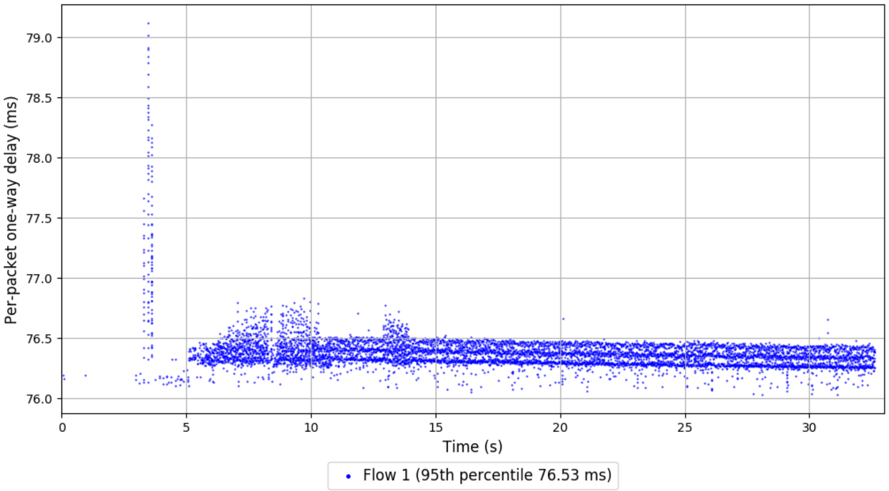
```
Run 8: Statistics of WebRTC media

Start at: 2018-06-19 03:57:39
End at: 2018-06-19 03:58:09
Local clock offset: -2.147 ms
Remote clock offset: 12.766 ms

# Below is generated by plot.py at 2018-06-19 05:05:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 76.527 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 76.527 ms
Loss rate: 0.50%
```

Run 8: Report of WebRTC media — Data Link



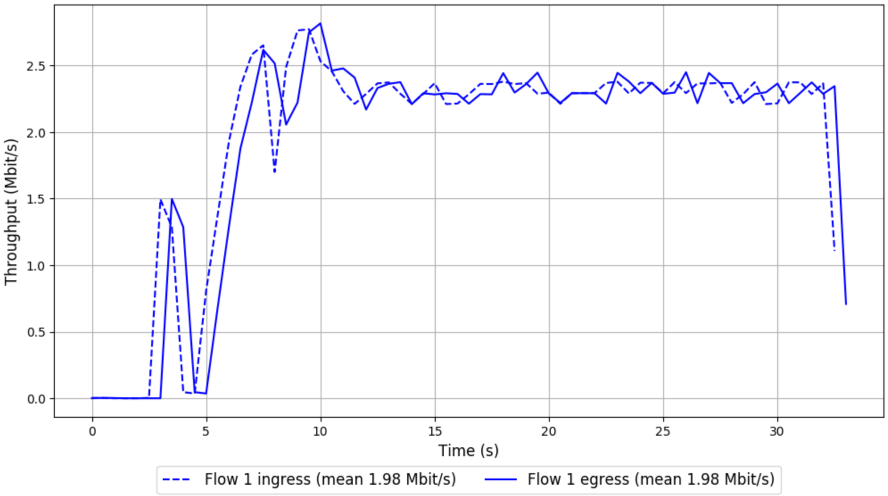


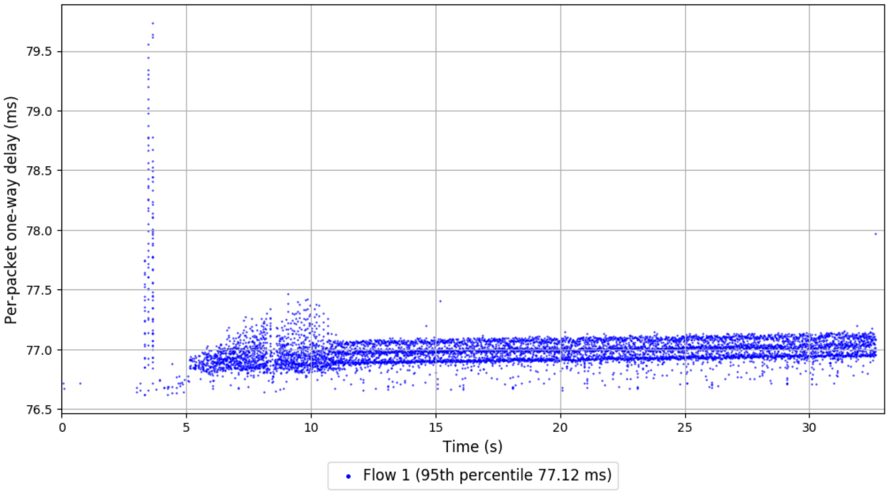
```
Run 9: Statistics of WebRTC media

Start at: 2018-06-19 04:16:18
End at: 2018-06-19 04:16:48
Local clock offset: -5.853 ms
Remote clock offset: 12.301 ms

# Below is generated by plot.py at 2018-06-19 05:05:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 77.118 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 77.118 ms
Loss rate: 0.57%
```

Run 9: Report of WebRTC media — Data Link



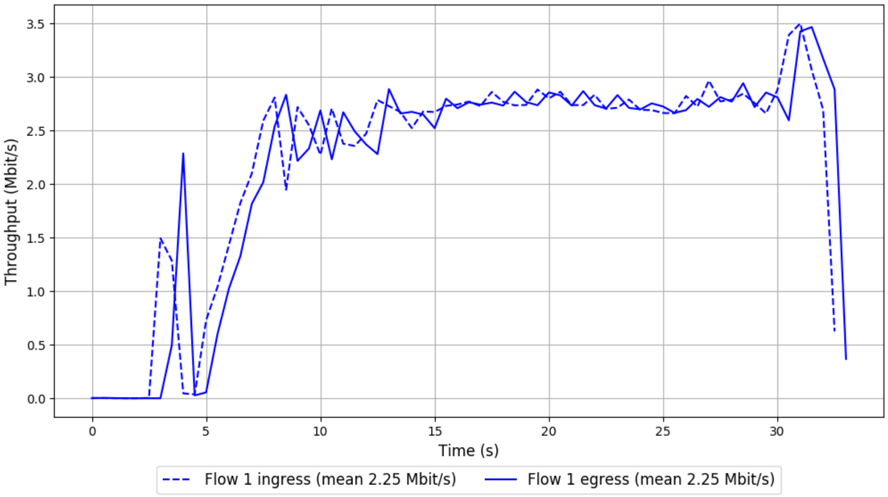


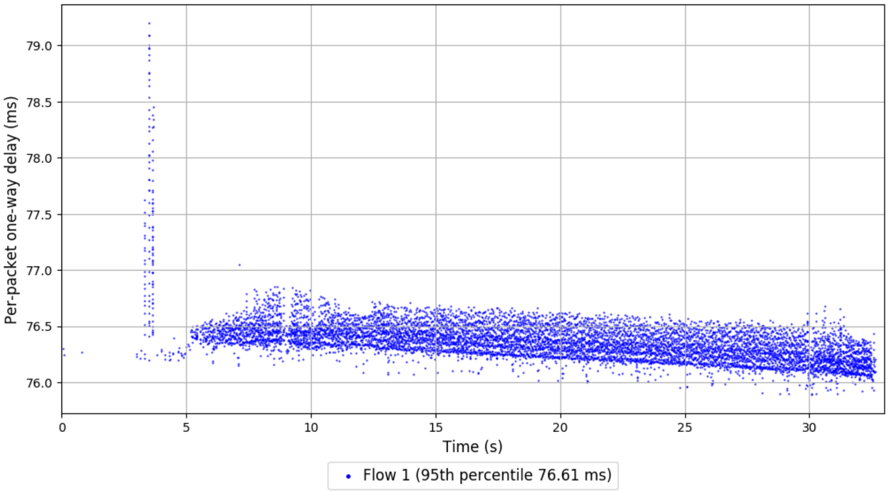
```
Run 10: Statistics of WebRTC media

Start at: 2018-06-19 04:34:57
End at: 2018-06-19 04:35:27
Local clock offset: -6.844 ms
Remote clock offset: 7.025 ms

# Below is generated by plot.py at 2018-06-19 05:05:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 76.611 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 2.25 Mbit/s
95th percentile per-packet one-way delay: 76.611 ms
Loss rate: 0.32%
```

Run 10: Report of WebRTC media — Data Link


Throughput (Mbit/s)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
0
5
10
15
20
25
30
Time (s)
Flow 1 ingress (mean 2.25 Mbit/s)
Flow 1 egress (mean 2.25 Mbit/s)


Per-packet one-way delay (ms)
76.0
76.5
77.0
77.5
78.0
78.5
79.0
0
5
10
15
20
25
30
Time (s)
Flow 1 (95th percentile 76.61 ms)