Benchmarks

Table of Contents

- · Benchmark Results
 - o compile:groth16:default
 - compile:bls12-381-pairing:default
 - compile:bls12-381-msm-g1-10:default
 - o compile:bls12-381-msm-g1-1000:default
 - o compile:bls12-381-msm-g2-10:default
 - compile:bls12-381-msm-g2-1000:default
 - compile:bls12-381-mul-affine-g1:default
 - compile:bls12-381-mul-affine-g2:default
 - compile:bls12-381-mul-projective-g1:default
 - o compile:bls12-381-mul-projective-g2:default
 - compile:bls12-377-pairing:default
 - o compile:bls12-377-msm-g1-10:default
 - compile:bls12-377-msm-g1-1000:default
 - compile:bls12-377-msm-g2-10:default
 - o compile:bls12-377-msm-g2-1000:default
 - compile:bls12-377-mul-affine-g1:default
 - compile:bls12-377-mul-affine-g2:default
 - compile:bls12-377-mul-projective-g1:default
 - compile:bls12-377-mul-projective-g2:default
 - compile:bw6-761-pairing:default
 - compile:bw6-761-msm-g1-10:default
 - compile:bw6-761-msm-g1-1000:default
 - compile:bw6-761-msm-g2-10:default
 - compile:bw6-761-msm-g2-1000:default
 - compile:bw6-761-mul-affine-g1:default
 - compile:bw6-761-mul-affine-g2:default
 - compile:bw6-761-mul-projective-g1:default
 - compile:bw6-761-mul-projective-g2:default
 - compile:ed-on-bls12-381-msm-sw-10:default
 - o compile:ed-on-bls12-381-msm-sw-1000:default
 - compile:ed-on-bls12-381-msm-te-10:default
 - compile:ed-on-bls12-381-msm-te-1000:default
 - compile:ed-on-bls12-381-mul-affine-sw:default
 - o compile:ed-on-bls12-381-mul-affine-te:default
 - compile:ed-on-bls12-381-mul-projective-sw:default
 - compile:ed-on-bls12-381-mul-projective-te:default
 - o compile:ed-on-bls12-377-mul-affine:default
 - compile:ed-on-bls12-377-mul-projective:default
 - o compile:ed-on-bls12-377-msm-10:default
 - o compile:ed-on-bls12-377-msm-1000:default
 - exec:groth16:default
 - · exec:bls12-381-pairing:default
 - exec:bls12-381-msm-g1-10:default
 - exec:bls12-381-msm-g1-1000:default
 - exec:bls12-381-msm-g2-10:default
 - exec:bls12-381-msm-g2-1000:default
 - exec:bls12-381-mul-affine-g1:default

- exec:bls12-381-mul-affine-g2:default
- exec:bls12-381-mul-projective-g1:default
- exec:bls12-381-mul-projective-g2:default
- exec:bls12-377-pairing:default
- exec:bls12-377-msm-g1-10:default
- exec:bls12-377-msm-g1-1000:default
- exec:bls12-377-msm-g2-10:default
- exec:bls12-377-msm-g2-1000:default
- exec:bls12-377-mul-affine-g1:default
- exec:bls12-377-mul-affine-g2:default
- exec:bls12-377-mul-projective-g1:default
- exec:bls12-377-mul-projective-g2:default
- exec:bw6-761-pairing:default
- exec:bw6-761-msm-g1-10:default
- exec:bw6-761-msm-g1-1000:default
- exec:bw6-761-msm-g2-10:default
- exec:bw6-761-msm-g2-1000:default
- exec:bw6-761-mul-affine-g1:default
- exec:bw6-761-mul-affine-g2:default
- exec:bw6-761-mul-projective-g1:default
- exec:bw6-761-mul-projective-g2:default
- exec:ed-on-bls12-381-msm-sw-10:default
- exec:ed-on-bls12-381-msm-sw-1000:default
- exec:ed-on-bls12-381-msm-te-10:default
- exec:ed-on-bls12-381-msm-te-1000:default
- exec:ed-on-bls12-381-mul-affine-sw:default
- exec:ed-on-bls12-381-mul-affine-te:default
- exec:ed-on-bls12-381-mul-projective-sw:default
- exec:ed-on-bls12-381-mul-projective-te:default
- exec:ed-on-bls12-377-mul-affine:default
- exec:ed-on-bls12-377-mul-projective:default
- exec:ed-on-bls12-377-msm-10:default
- exec:ed-on-bls12-377-msm-1000:default

Benchmark Results

compile:groth16:default

2209532 bytes
180.28 ms (1.00 x)

compile:bls12-381-pairing:default

2115526 bytes
116.59 ms (1.00x)

compile:bls12-381-msm-g1-10:default

2057684 bytes

2057684 bytes
92.71 ms (1.00 x)

compile:bls12-381-msm-g1-1000:default

2057689 bytes
88.12 ms (1.00 x)

compile:bls12-381-msm-g2-10:default

2052877 bytes
73.45 ms (1.00x)

compile:bls12-381-msm-g2-1000:default

2052882 bytes
75.14 ms (1.00x)

compile:bls12-381-mul-affine-g1:default

2026347 bytes
67.78 ms (1.00 x)

compile:bls12-381-mul-affine-g2:default

2024570 bytes
57.58 ms (1.00x)

compile:bls12-381-mul-projective-g1:default

2026854 bytes
71.52 ms (1.00 x)

compile:bls12-381-mul-projective-g2:default

2024738 bytes
72.91 ms (1.00 x)

compile:bls12-377-pairing:default

2146613 bytes
227.77 ms (1.00 x)

compile:bls12-377-msm-g1-10:default

2057654 bytes
96.14 ms (1.00 x)

compile:bls12-377-msm-g1-1000:default

2057659 bytes
94.81 ms (1.00 x)

compile:bls12-377-msm-g2-10:default

2053801 bytes
77.64 ms (1.00x)

compile:bls12-377-msm-g2-1000:default

2053806 bytes	
73.28 ms (1.00x)	

compile:bls12-377-mul-affine-g1:default

2026248 bytes
100.40 ms (1.00 x)

compile:bls12-377-mul-affine-g2:default

2025398 bytes
52.32 ms (1.00x)

compile:bls12-377-mul-projective-g1:default

2026749 bytes
66.90 ms (1.00 x)

compile:bls12-377-mul-projective-g2:default

2025572 bytes
50.11 ms (1.00 x)

compile:bw6-761-pairing:default

2115159 bytes
123.01 ms (1.00 x)

compile:bw6-761-msm-g1-10:default

2082916 bytes
153.42 ms (1.00x)

compile:bw6-761-msm-g1-1000:default

2082922 bytes
137.18 ms (1.00x)

compile:bw6-761-msm-g2-10:default

2082920 bytes
116.53 ms (1.00 x)

compile:bw6-761-msm-g2-1000:default

2082921 bytes
127.08 ms (1.00x)

compile:bw6-761-mul-affine-g1:default

2052264 bytes
133.37 ms (1.00 x)

compile:bw6-761-mul-affine-g2:default

2052264 bytes
114.61 ms (1.00 x)

compile:bw6-761-mul-projective-g1:default

2052467 bytes
148.33 ms (1.00x)

compile:bw6-761-mul-projective-g2:default

2052467 bytes
142.45 ms (1.00 x)

compile:ed-on-bls12-381-msm-sw-10:default

2057226 bytes
65.90 ms (1.00 x)

compile:ed-on-bls12-381-msm-sw-1000:default

2057231 bytes
66.54 ms (1.00 x)

compile:ed-on-bls12-381-msm-te-10:default

2046406 bytes
90.92 ms (1.00 x)

compile:ed-on-bls12-381-msm-te-1000:default

2046407 bytes
116.62 ms (1.00 x)

compile:ed-on-bls12-381-mul-affine-sw:default

2024113 bytes
84.34 ms (1.00 x)

compile:ed-on-bls12-381-mul-affine-te:default

2024116 bytes
77.44 ms (1.00x)

compile:ed-on-bls12-381-mul-projective-sw:default

2024113 bytes
98.46 ms (1.00 x)

compile:ed-on-bls12-381-mul-projective-te:default

2028300 bytes
86.25 ms (1.00x)

compile:ed-on-bls12-377-mul-affine:default

2045524 bytes
110.92 ms (1.00 x)

compile:ed-on-bls12-377-mul-projective:default

2028426 bytes
68.19 ms (1.00 x)

compile:ed-on-bls12-377-msm-10:default

2046587 bytes
86.00 ms (1.00 x)

compile:ed-on-bls12-377-msm-1000:default

2046592 bytes
86.11 ms (1.00 x)

exec:groth16:default

2209532 bytes
56.98 ms (1.00 x)

exec:bls12-381-pairing:default

2115526 bytes
19.04 ms (1.00 x)

exec:bls12-381-msm-g1-10:default

2057684 bytes
737.74 us (1.00x)

exec:bls12-381-msm-g1-1000:default

2057689 bytes
14.88 ms (1.00 x)

exec:bls12-381-msm-g2-10:default

2052877 bytes
1.09 ms (1.00 x)

exec:bls12-381-msm-g2-1000:default

2052882 bytes
36.54 ms (1.00x)

exec:bls12-381-mul-affine-g1:default

2026347 bytes
29.70 us (1.00 x)

exec:bls12-381-mul-affine-g2:default

2024570 bytes
37.31 us (1.00 x)

exec:bls12-381-mul-projective-g1:default

2026854 bytes
101.07 us (1.00 x)

exec:bls12-381-mul-projective-g2:default

2024738 bytes
37.74 us (1.00x)

exec:bls12-377-pairing:default

2146613 bytes
18.66 ms (1.00 x)

exec:bls12-377-msm-g1-10:default

2057654 bytes
576.27 us (1.00 x)

exec:bls12-377-msm-g1-1000:default

2057659 bytes
14.52 ms (1.00 x)

exec:bls12-377-msm-g2-10:default

2053801 bytes
1.35 ms (1.00x)

exec:bls12-377-msm-g2-1000:default

2053806 bytes
37.88 ms (1.00 x)

exec:bls12-377-mul-affine-g1:default

2026248 bytes
61.45 us (1.00 x)

exec:bls12-377-mul-affine-g2:default

2025398 bytes
37.10 us (1.00 x)

exec:bls12-377-mul-projective-g1:default

2026749 bytes
31.59 us (1.00x)

exec:bls12-377-mul-projective-g2:default

2025572 bytes
38.19 us (1.00 x)

exec:bw6-761-pairing:default

2115159 bytes
78.30 ms (1.00 x)

exec:bw6-761-msm-g1-10:default

2082916 bytes
1.60 ms (1.00 x)

exec:bw6-761-msm-g1-1000:default

2082922 bytes
51.30 ms (1.00 x)

exec:bw6-761-msm-g2-10:default

2082920 bytes
1.45 ms (1.00x)

exec:bw6-761-msm-g2-1000:default

2082921 bytes
46.25 ms (1.00 x)

exec:bw6-761-mul-affine-g1:default

2052264 bytes
44.28 us (1.00x)

exec:bw6-761-mul-affine-g2:default

2052264 bytes
44.84 us (1.00x)

exec:bw6-761-mul-projective-g1:default

2052467 bytes
44.30 us (1.00x)

exec:bw6-761-mul-projective-g2:default

2052467 bytes
44.84 us (1.00x)

exec:ed-on-bls12-381-msm-sw-10:default

2057226 bytes
345.06 us (1.00x)

exec:ed-on-bls12-381-msm-sw-1000:default

2057231 bytes
8.32 ms (1.00x)

exec:ed-on-bls12-381-msm-te-10:default

2046406 bytes
6.54 ms (1.00x)

exec:ed-on-bls12-381-msm-te-1000:default

2046407 bytes
72.86 ms (1.00 x)

exec:ed-on-bls12-381-mul-affine-sw:default

2024113 bytes
36.63 us (1.00 x)

exec:ed-on-bls12-381-mul-affine-te:default

2024116 bytes
30.05 us (1.00 x)

exec:ed-on-bls12-381-mul-projective-sw:default

2024113 bytes
24.89 us (1.00 x)

exec:ed-on-bls12-381-mul-projective-te:default

2028300 bytes
27.47 us (1.00x)

exec:ed-on-bls12-377-mul-affine:default

2045524 bytes
6.04 ms (1.00 x)

exec:ed-on-bls12-377-mul-projective:default

2028426 bytes
27.30 us (1.00x)

exec:ed-on-bls12-377-msm-10:default

2046587 bytes
6.07 ms (1.00 x)

exec:ed-on-bls12-377-msm-1000:default

2046592 bytes
65.89 ms (1.00 x)

Made with criterion-table