Mandelbrot Benchmark Results:

Resolution | Time | Checksum | Image File

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128x128 | 0.079 s | 429384 | mandelbrot\_128×128.png

160x160 | 0.122 s | 669829 | mandelbrot\_160×160.png

192x192 | 0.171 s | 966024 | mandelbrot\_192×192.png

224x224 | 0.232 s | 1314999 | mandelbrot\_224×224.png

256x256 | 0.302 s | 1715812 | mandelbrot\_256×256.png

Fixed Point Arithmetic on STM32

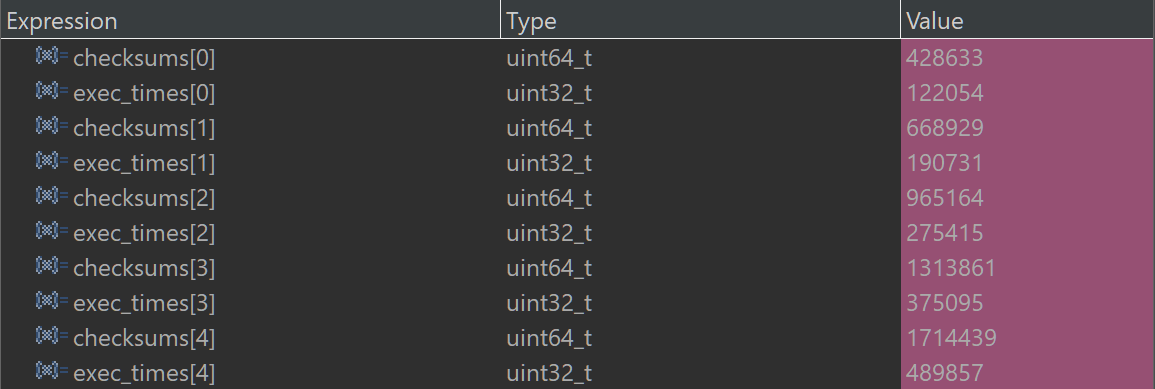


Figure : With 64-bit

Floating Point Arithmetic on STM32

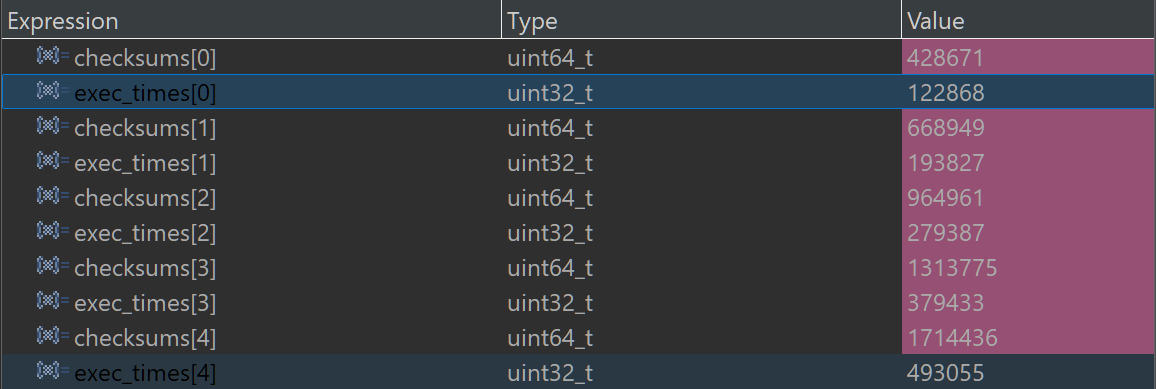


Figure : 64-bit numbers

AI CLAUSE

AI for error detection and resolution

AI for optimisation

AI for explanations