



An Industry-Standard Benchmark Consortium

AutoBench™ Version 1.1

Benchmark Name: Matrix Arithmetic

Benchmark Description

This EEMBC benchmark simulates an embedded automotive/industrial application which performs a lot of matrix arithmetic.

The kernel performs an LU decomposition on ‘n x n’ input matrices. It also computes the determinant of the input matrix then a cross product with a second matrix.

Optimization Rules

Category	Allowed	Disallowed
ANSI C	X	
Intrinsics/Language Extensions	X	
Custom Libraries	X	
Assembly Language	X	
HW Accelerators	X	

Algorithm Flowchart

