An Industry-Standard Benchmark Consortium

AutoBench™ Version 1.1

Benchmark Name: Inverse Discrete Cosine Transform (iDCT)

Benchmark Description

This EEMBC benchmark simulates an embedded automotive/industrial application performing digital video and graphics applications such as image recognition.

The kernel performs an inverse discrete cosine transform (iDCT) on an input data matrix set using 64-bit integer arithmetic.

Optimization Rules

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

Algorithm Flowchart