

LCALS: Livermore Compiler Analysis Loop Suite

Summary Version

1.0

Purpose of Benchmark

LCALS is a single-node benchmark designed to test CPU performance. It is best suited for studying bSIMD and OpenMP performance.

Characteristics of Benchmark

LCALS is written in standard C++, and contains approximately 30 loop kernels that are representative of the sorts of loops found in scientific codes.

Mechanics of Building and Running the LCALS Benchmark

Please see the file `README-LCALSBenchmark-Guidance.txt` for specifics of running for CORAL.