

mdtest: Metadata Performance Benchmark

Summary Version

1.0

Purpose of Benchmark

mdtest is used for testing metadata performance of parallel filesystems using various simulated metadata workloads.

Characteristics of Benchmark

mdtest uses MPI for process synchronization.

Location of Benchmark

<https://sourceforge.net/projects/mdtest/>

Mechanics of Building Benchmark

Type `gmake mdtest` from the `mdtest/` directory.

Note that MPI must be present for building/running mdtest.

Mechanics of Running Benchmark

Instructions for running mdtest are given in the README.

Verification of Results

The FOM reported is the metadata performance with or without the small I/O based on the test executed.

In addition, the vendor should report the following projected values for operations to a single directory:

- file creates
- directory create
- object insertion
- object retrieval (stat)
- object deletion