

simul: POSIX Compliance Benchmark

Summary Version

1.0

Purpose of Benchmark

simul is used for testing POSIX compliance of parallel filesystems and it is an MPI coordinated test of parallel filesystem system calls and library functions. It is designed to perform filesystem operations simultaneously from many nodes and processes to test the correctness and coherence of parallel filesystems.

Characteristics of Benchmark

simul uses MPI for process synchronization.

Location of Benchmark

<https://github.com/l1nl/simul>

Mechanics of Building Benchmark

Type `gmake simul` in the `simul/` directory.

Mechanics of Running Benchmark

Instructions for running simul are given in the README.

simul requires a “-d” parameter to be executed pointing to the directory where the tests will be executed.

Verification of Results

The FOM reported is the test results and PASS/FAIL status of each test with the respective test number.