

When developing software, unit tests are commonly used. This thesis proposes PerfEval, a tool that performs performance testing in a similar way.

The PerfEval tool is designed to compare the performance measurement results of two software versions and evaluate whether the performance of the newer version differs. The tool uses the results of measurements from common benchmarking frameworks. By comparing the results of measurements from these frameworks using statistical methods, it detects changes in performance between versions.

Just as unit tests alert the user if their code is incorrect, PerfEval also alerts the user to changes in performance. PerfEval is a console application, so it can be easily controlled from scripts just like unit tests.