

The objective of this work is to improve look up for changes in source code performance and help to remove burden at software testing with it. It tries to design some framework for this purpose which includes creating or describing tools and defining methods how to work with them. The work starts with description of profiling and how this process can influence the performance measurement results. The profiler requirements are defined for purposes of this work and the OProfile is selected as the representative profiler. The next part contains analysis of program run and description of Execution and Waiting part of the run. Following is the categorization of various source code changes due to the possibility of their detection. The third part defines two methods for locating performance regression: advanced difference filtering and comparing the profiler results. Advanced difference filtering is an intersection between a list of changed code parts and a list of code parts executed at measurement. The second method is just comparing the profiler output using the visualization tool. The final part is demonstration of these two methods on real projects.