Measurement-based, automatic detection of software performance problems with DynamicSpotter

Description

DynamicSpotter is an approach and tooling environment for measurement-based, automatic detection of software performance problems by conducting systematic performance tests. The goal of this seminar paper is to provide an overview of the DynamicSpotter approach, including the underlying concept of performance problem hierarchies and detection heuristics, which are used for the systematic performance testing. In addition to studying and summarizing the research literature, it is a mandatory part of this seminar to gather and share hands-on experience with the available tooling infrastructure. For example, the approach could be applied to a distributed enterprise application which is subject to performance problem injection. The provided references are to be considered a starting point and it is expected to extend the literature search and present a coherent view on the current state of the art in this area.

References


Contacts

André van Hoorn (van.hoorn@informatik.uni-stuttgart.de)
Reliable Software Systems (RSS) Group
Institute for Software Technology (ISTE)
University of Stuttgart