Software Engineering Seminar (WS 2015)

Static Analysis for Estimating Memory Consumption of Applications

Description

Inferring the maximum and minimum amounts of irreclaimable objects in an application heap is critical to analyzing potential heap-memory consumption of stand-alone applications or libraries. An interesting approach is to estimate this resource consumption in a static manner [2], possibly by the introduction of contract-like annotations [4] and/or symbolic calculation [1]. Accurate memory consumption estimates would have an impact that extends beyond this introduction. In particular, accurate estimates for embedded and/or smartphones applications could impact hardware cost as well as energy consumption estimates [3].

References


Contacts

Lars Grunske (grunske@informatik.hu-berlin.de)
Software Engineering Group
Institut für Informatik
Humboldt-Universität zu Berlin