

Fabrice Rastello
Florent Bouchez Tichadou
Editors

SSA-based Compiler Design



Springer

Pdf Ssa Based Compiler Design Fabrice Rastello

Benoit Boissinot



Pdf Ssa Based Compiler Design Fabrice Rastello:

SSA-based Compiler Design Fabrice Rastello, Florent Bouchez Tichadou, 2022-12-08 This book provides readers with a single source reference to static single assignment SSA based compiler design. It is the first and up to now only book that covers in a deep and comprehensive way how an optimizing compiler can be designed using the SSA form. After introducing vanilla SSA and its main properties, the authors describe several compiler analyses and optimizations under this form. They illustrate how compiler design can be made simpler and more efficient thanks to the SSA form. This book also serves as a valuable text reference for lecturers making the teaching of compilers simpler and more effective. Coverage also includes advanced topics such as code generation, aliasing, predication, and more, making this book a valuable reference for advanced students and practicing engineers.

Towards an SSA Based Compiler Back-end Benoit Boissinot, 2010 This thesis is articulated around three topics, all of them related to the SSA form. First, we explore the optimization of liveness algorithms when applied to programs in SSA form. In particular, we present an efficient algorithm based on the structure of the program, the loops, and based on properties specific to the SSA form. Next, we present an intermediate representation which is a variant of SSA, the Static Single Information form (SSI). We clarify the different definitions for this form which appeared in the literature, pointing out the points where they diverge. Then, we prove that the interference graph, the intersection graph of the live ranges of variables under SSI form, is an interval graph. Finally, we propose a new approach to the problem of SSA destruction. Our method, while simpler than previous approaches, gives us results comparable to more complex and not always proved approaches.

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