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Advanced Symbolic Analysis For Compilers

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A prominent program analysis technique is symbolic analysis, which has attracted substantial attention for many years as it is not dependent on executing a program to examine the semantics of a program, and it can yield very elegant formulations of many analyses.

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Advanced symbolic analysis for compilers : new techniques and algorithms for symbolic program analysis and optimization. [Thomas Fahringer; Bernhard Scholz] -- This book presents novel symbolic control and data flow techniques as well as symbolic techniques and algorithms for program analysis and program optimization.

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Symbolic analysis is of paramount importance for parallelizing compilers and performance estimators to examine symbolic expressions with program unknowns such as machine and problem sizes and to ...

Performance Analysis of Symbolic Analysis Techniques for ...

Zaks A and Pnueli A Program analysis for compiler validation Proceedings of the 8th ACM SIGPLAN-SIGSOFT workshop on Program analysis for software tools and engineering, (1-7)
Hascoët L, Utke J and Naumann U (2018) Cheaper adjoints by reversing address computations, Scientific Programming, 16 :1 , (81-92), Online publication date: 1-Jan-2008 .

Advanced compiler design and implementation | Guide books

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A program flow analysis framework is proposed for parallelizing compilers. Within this framework, symbolic analysis is used as an abstract interpretation technique to solve many of the flow ...

Nonlinear Symbolic Analysis for Advanced Program ...

The Range Test is the main advanced data dependence test in the Polaris compiler. Expression propagation is another important technique, which can eliminate symbolic terms by substituting them with known values. Furthermore, symbolic expression simplification is essential in several passes in the Polaris compiler.

Performance Analysis of Symbolic Analysis Techniques for ...

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Teregowda): Understanding symbolic expressions is an important capability of advanced program analysis techniques. Many current compiler techniques assume that coefficients of program expressions, such as array subscripts and loop bounds, are integer constants. Advanced symbolic handling capabilities could make these techniques ...

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Free BASIC Compilers and Interpreters. The term BASIC, an acronym for Beginner's All-purpose Symbolic Instruction Code, actually describes a whole plethora of computer languages, not all of which are actually compatible with each other.

Free BASIC Compilers and Interpreters (thefreecountry.com)

This course covers concepts and techniques for the design and implementation of large software systems that can be adapted to uses not anticipated by the designer. Applications include compilers, computer-algebra systems, deductive systems, and some artificial intelligence applications. Topics include combinators, generic operations, pattern matching, pattern-directed invocation, rule systems ...

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Advanced symbolic analysis for compilers : new techniques ...

The notion of dependence captures that most important properties of a program for efficient execution on parallel computers. The dependence structure of a program defines that necessary constraints...

Symbolic analysis for parallelizing compilers | ACM ...

Symbol Table is an important data structure created and maintained by the compiler in order to keep track of semantics

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of variable i.e. it stores information about scope and binding information about names, information about instances of various entities such as variable and function names, classes, objects, etc.

Symbol Table in Compiler - GeeksforGeeks

Symbolic Analysis for Parallelizing Compilers. Kluwer Academic Publishers, 1995. Google Scholar; M.R. Haghghat and C.D. Polychronopoulos. Symbolic program analysis and optimization for parallelizing compilers. In 5th Annual Workshop on Languages and Compilers for Parallel Computing, LNCS 757, pages 538-562, New Haven, Connecticut, 1992 ...

Efficient Symbolic Analysis for Optimizing Compilers ...

Advanced Compiler Design and Implementation presents a comprehensive and technically up-to-date look at design of real-world compilers for CISC- and RISC-based uni-processor architectures. The author led the advanced compiler design and implementation teams for both Hewlett-Packard's PA-RISC and Sun Microsystems's SPARC processors.

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