

Algorithmic debugging session

Content outline:

- Step-by-step debugging of the sample code above
- Include an explanation as well as a chart

Algorithmic Program Debugging

Ugo Montanari



Algorithmic Program Debugging:

Algorithmic Program Debugging Ehud Y. Shapiro, 2004-07-01 Shapiro productively combines elements of programming languages environments logic and inductive inference to produce effective debugging aids The author s use of the PROLOG language provides an efficient implementation of the debugging algorithms Automated and Algorithmic Debugging Peter A. Fritzson, 1993-11-10 Debugging has always been a costly part of software development and many attempts have been made to provide automatic computer support for this task Automated debugging has seen major developments over the last decade Onesuccessful development is algorithmic debugging which originated in logic programming but was later generalized to concurrent imperative and lazy functional languages Important advances have also been made in knowledge based program debugging and in approaches to automated debugging based on static and dynamic program slicing based on dataflow and dependence analysis technology This is the first collected volume of papers on automated debugging and presents latest developments tutorial papers and surveys *Algorithmic Program Debugging* Ehud Yehuda Shapiro, 1982

Logic-Based Program Synthesis and Transformation Germán Puebla, 2007-03-16 This book constitutes the thoroughly refereed postproceedings of the 16th International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2006 held in Venice Italy July 2006 in conjunction with ICALP 2006 PPDP 2006 and CSFW 2006 The 14 revised full papers cover tools for program development partial evaluation and program transformation security and synthesis debugging and testing as well as termination and analysis *Generalized Algorithmic Debugging* N. Shahmehri, 1991 Abstract This thesis presents a novel method for semi automatic program debugging the Generalized Algorithmic Debugging Technique GADT The notion of declarative algorithmic debugging was first introduced for logic programming However this is the first algorithmic debugging method based on the principle of declarative debugging which can handle the debugging of programs written in an imperative language including loops and side effects In order to localize a bug the debugging algorithm incrementally acquires knowledge about the debugged program The knowledge is supplied by the user The algorithm terminates when the bug has been localized to within the body of a procedure or an explicit loop The generalized algorithmic debugging method uses program transformation and program flow analysis techniques to transform the subject program to a largely side effect free internal form which is used for bug localization Thus this algorithm defines two views of a program 1 The user view which is the original program with side effects and 2 the transformed view which is the transformed side effect free version of the original program Transparent program debugging is supported by maintaining a mapping between these two views The bug localization algorithm works on the transformed version whereas user interactions are defined in terms of the user view We have presented a general technique which it sic is not based on any ad hoc assumptions about the subject program The flexibility of this method has made it possible to further improve the bug localization algorithm by employing a number of other techniques i e program slicing and test database lookup thus increasing the degree of automation provided

by GADT These extensions are topics for ongoing research projects and future work A survey and evaluation of a number of automated debugging systems and the techniques behind these systems are also presented We have introduced several criteria for comparing these techniques with GADT A prototype implementation of the generalized algorithmic debugging technique has been carried out to verify its feasibility and to provide feedback for further refinement of the method This has already resulted in a more efficient set of transformations described in the thesis compared to the initial prototype

Logic-Based Program Synthesis and Transformation María Alpuente, 2011-05-02 This book constitutes the thoroughly refereed post proceedings of the 20th International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2010 held in Hagenberg Austria in July 2010 The 13 revised full papers presented together with two invited papers were carefully reviewed and selected from 26 submissions Among the topics covered are specification synthesis verification analysis optimization specialization security certification application and tools program model manipulation and transformation techniques for any programming language paradigm

Algorithmic Learning Theory Setsuo Arikawa, Klaus P. Jantke, 1994-09-28 This volume presents the proceedings of the Fourth International Workshop on Analogical and Inductive Inference AII 94 and the Fifth International Workshop on Algorithmic Learning Theory ALT 94 held jointly at Reinhardsbrunn Castle Germany in October 1994 In future the AII and ALT workshops will be amalgamated and held under the single title of Algorithmic Learning Theory The book contains revised versions of 45 papers on all current aspects of computational learning theory in particular algorithmic learning machine learning analogical inference inductive logic case based reasoning and formal language learning are addressed

Logic-Based Program Synthesis and Transformation Elvira Albert, 2013-04-17 This book constitutes the thoroughly refereed post conference proceedings of the 22nd International Symposium on Logic Based Program Synthesis and Transformation LOPSTR 2012 held in Leuven Belgium in September 2012 The 13 revised full papers presented together with 2 invited talks were carefully reviewed and selected from 27 submissions Among the topics covered are specification synthesis verification analysis optimization specialization security certification applications and tools program model manipulation and transformation techniques for any programming language paradigm

How Debuggers Work Jonathan B. Rosenberg, 1996 A total guide to debuggers what they do how they work and how to use them to produce better programs Debuggers are the magnifying glass the microscope the logic analyzer the profiler and the browser with which a program can be examined Jonathan B Rosenberg Debuggers are an indispensable tool in the development process In fact during the course of the average software project more hours are spent debugging software than in compiling code Yet not many programmers really know how to constructively interpret the results they get back from debuggers And even fewer know what makes these complex suites of algorithms and data structures tick Now in this extremely accessible guide Jonathan B Rosenberg demystifies debuggers for programmers and shows them how to make better use of debuggers in their next projects Taking a hands on problem solving approach to a

complex subject Rosenberg explains how debuggers work and why programmers use them Most importantly he provides practical discussions of debugger algorithms and procedures for their use accompanied by many practical examples The author also discusses a wide variety of systems applications from Microsoft's Win32 debug API to a large parallel architecture Visit our Web site at <http://www.wiley.com/compbooks>

Programming Language Implementation and Logic Programming Pierre Deransart, Jan Maluszynski, 1990-08-08 This volume consists of the papers accepted for presentation at the second international workshop on Programming Language Implementation and Logic Programming PLILP 90 held in Linköping Sweden August 20-22 1990 The aim of the workshop was to identify concepts and techniques used both in implementation of programming languages regardless of the underlying programming paradigm and in logic programming The intention was to bring together researchers working in these fields The volume includes 26 selected papers falling into two categories Papers in the first category present certain ideas from the point of view of a particular class of programming languages or even a particular language The ideas presented seem to be applicable in other classes of languages Papers in the second category directly address the problem of integration of various programming paradigms The proceedings of the predecessor workshop PLILP 88 held in Orleans France May 16-18 1988 are available as Lecture Notes in Computer Science Vol 348

Principles and Practice of Constraint Programming - CP '95 Ugo Montanari, 1995-09-06 This book constitutes the proceedings of the First International Conference on Principles and Practice of Constraint Programming CP 95 held in Cassis near Marseille France in September 1995 The 33 refereed full papers included were selected out of 108 submissions and constitute the main part of the book in addition there is a 60 page documentation of the four invited papers and a section presenting industrial reports Thus besides having a very strong research component the volume will be attractive for practitioners The papers are organized in sections on efficient constraint handling constraint logic programming concurrent constraint programming computational logic applications and operations research

Compiler Compilers Dieter Hammer, 1991-02-12 Advances and problems in the field of compiler compilers are considered in this volume which presents the proceedings of the third in a series of biannual workshops on compiler compilers Selected papers address the topics of requirements properties and theoretical aspects of compiler compilers as well as tools and metatools for software engineering The 23 papers cover a wide spectrum in the field of compiler compilers ranging from overviews of new compiler compilers for generating quality compilers to special problems of code generation and optimization Aspects of compilers for parallel systems and knowledge based development tools are also discussed

Logic Based Program Synthesis and Transformation M. Leuschel, 2003-06-18 This book constitutes the thoroughly refereed post proceedings of the 12th International Workshop on Logic Based Program Synthesis and Transformation LOPSTR 2002 held in Madrid Spain in September 2002 The 15 revised full papers presented together with 7 abstracts were carefully selected during two rounds of reviewing and revision from 40 submissions The papers are organized in topical sections on debugging and types tabling

and constraints abstract interpretation program refinement verification partial evaluation and rewriting and object oriented development

Intelligent Problem Solving. Methodologies and Approaches Rasiah Logananthara, Günther

Palm, Moonis Ali, 2003-07-31 The focus of the papers presented in these proceedings is on employing various methodologies and approaches for solving real life problems Although the mechanisms that the human brain employs to solve problems are not yet completely known we do have good insight into the functional processing performed by the human mind On the basis of the understanding of these natural processes scientists in the field of applied intelligence have developed multiple types of artificial processes and have employed them successfully in solving real life problems The types of approaches used to solve problems are dependant on both the nature of the problem and the expected outcome While knowledge based systems are useful for solving problems in well understood domains with relatively stable environments the approach may fail when the domain knowledge is either not very well understood or changing rapidly The techniques of data discovery through data mining will help to alleviate some problems faced by knowledge based approaches to solving problems in such domains Research and development in the area of artificial intelligence are influenced by opportunity needs and the availability of resources The rapid advancement of Internet technology and the trend of increasing bandwidths provide an opportunity and a need for intelligent information processing thus creating an excellent opportunity for agent based computations and learning Over 40% of the papers appearing in the conference proceedings focus on the area of machine learning and intelligent agents clear evidence of growing interest in this area

Model Driven Engineering Languages and Systems

Gregor Engels, Bill Opdyke, Douglas C. Schmidt, Frank Weil, 2007-09-12 This book constitutes the refereed proceedings of the 10th International Conference on Model Driven Engineering Languages and Systems formerly the UML series of conferences MODELS 2007 held in Nashville USA September 30 October 5 2007 The 45 revised full papers were carefully reviewed and selected from 158 initial submissions The papers are organized in topical sections

Functional and Logic Programming

Herbert Kuchen, Kazunori Ueda, 2003-06-29 This book constitutes the refereed proceedings of the 5th International Symposium on Functional and Logic Programming FLOPS 2001 held in Tokyo Japan in March 2001 The 21 revised full papers presented together with three invited papers were carefully reviewed and selected from 40 submissions The book offers topical sections on functional programming logic programming functional logic programming types program analysis and transformation and Lambda calculus

Algebraic Methodology and Software Technology José Meseguer, Grigore

Rosu, 2008-07-15 This book constitutes the refereed proceedings of the 12th International Conference on Algebraic Methodology and Software Technology AMAST 2008 held in Urbana IL USA in July 2008 The 28 revised full papers presented together with 3 invited talks were carefully reviewed and selected from 58 submissions Among the topics covered are all current issues in formal methods related to algebraic and logical foundations software technology and to programming methodology including concurrent and reactive systems evolutionary software adaptive systems logic and functional

programming object paradigms constraint programming and concurrency program verification and transformation
 programming calculi specification languages and tools formal specification and development case studies logic category
 theory relation algebra computational algebra algebraic foundations for languages and systems coinduction theorem proving
 and logical frameworks for reasoning logics of programs as well as algebra and coalgebra **New Frontiers in Artificial
 Intelligence** Kazuhiro Kojima,Maki Sakamoto,Koji Mineshima,Ken Satoh,2019-10-10 This book constitutes extended revised
 and selected papers from the 10th International Symposium of Artificial Intelligence supported by the Japanese Society for
 Artificial Intelligence JSAI isAI 2018 It was held in November 2018 in Yokohama Japan The 28 paper full papers and 5 short
 papers were carefully selected from 97 submissions The papers selected cover topics in Artificial Intelligence such as AI and
 law business intelligence human intelligence logic and engineering and data analytics and applications *Computational
 Science and Its Applications - ICCSA 2003* Vipin Kumar,Marina L. Gavrilova,C.J. Kenneth Tan,Pierre L'Ecuyer,2003-08-03
 The three volume set LNCS 2667 LNCS 2668 and LNCS 2669 constitutes the refereed proceedings of the International
 Conference on Computational Science and Its Applications ICCSA 2003 held in Montreal Canada in May 2003 The three
 volumes present more than 300 papers and span the whole range of computational science from foundational issues in
 computer science and mathematics to advanced applications in virtually all sciences making use of computational techniques
 The proceedings give a unique account of recent results in computational science *Handbook of Research on Emerging
 Rule-Based Languages and Technologies: Open Solutions and Approaches* Giurca, Adrian,Gasevic, Dragan,Taveter,
 Kuldar,2009-05-31 This book provides a comprehensive collection of state of the art advancements in rule languages
 Provided by publisher

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Algorithmic Program Debugging Introduction

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