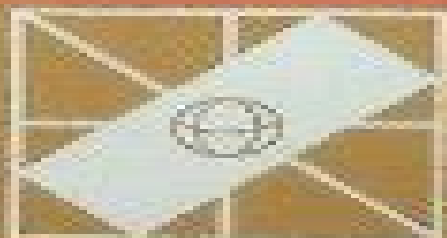


program specification and transformation



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Program Specification And Transformation

Helmut A. Partsch



Program Specification And Transformation:

Specification and Transformation of Programs Helmut A. Partsch, 1990-07-05 Specification and transformation of programs is short for a methodology of software development where from a formal specification of a problem to be solved programs correctly solving that problem are constructed by stepwise application of formal semantics preserving transformation rules The approach considers programming as a formal activity Consequently it requires some mathematical maturity and above all the will to try something new A somewhat experienced programmer or a third or fourth year student in computer science should be able to master most of this material at least this is the level I have aimed at This book is primarily intended as a general introductory textbook on transformational methodology As with any methodology reading and understanding is necessary but not sufficient Therefore most of the chapters contain a set of exercises for practising as homework Solutions to these exercises exist and can in principle be obtained at nominal cost from the author upon request on appropriate letterhead In addition the book also can be seen as a comprehensive account of the particular transformational methodology developed within the Munich CIP project

Program Development by Specification and Transformation Berthold Hoffmann, 1993 This volume gives a coherent presentation of the outcome of the project PROSPECTRA PROgram development by SPECification and TRAnsformation that aims to provide a rigorous methodology for developing correct software and a comprehensive support system The results are substantial a theoretically well founded methodology covering the whole development cycle a very high level specification and transformation language family allowing meta program development and formalization of the development process itself and a prototype development system supporting structure editing incremental static semantic checking interactive context sensitivetransformation and verification development of transformation meta programs version management and so on with an initial library of specifications and a sizeable collection of implemented transformations The intended audience for this documentation is the academic community working in this and related areas and those members of the industrial community interested in the use of formal methods

Program Specification and Transformation Lambert Meertens, IFIP Technical Committee 2--Programming, IFIP Working Group 2.1 on Algol, 1987 The economic construction of correct and efficient programs is the central issue in the field of program specification and transformation Research in this field is crucial with the advent of cheap computing power in a society increasingly dependent on the availability of error free programs In recognizing this need this book presents examination of a variety of aspects from practical experience in applying transformational methodology to actual production of software via examples of transformational derivations of algorithms By thus illustrating the state of the art and providing results of recent research the book should not only aid scientists but also show professionals just how their work will be influenced by these developments

Modern Software Tools for Scientific Computing E. Arge, A. Bruaset, Hans Petter Langtangen, 1997-04 The purpose of this book is to survey some recent advances in the development of software tools

for scientific computing This book presents 17 carefully selected and refereed chapters originally presented at the SciTools 96 Workshop in Oslo Norway The chapters emphasize the design of large software codes computational efficiency object oriented programming in scientific computing reliability of numerical software and parallel computing Program Development by Specification and Transformation Berthold Hoffmann, Bernd Krieg-Brückner, 1993-08-30 This volume gives a coherent presentation of the outcome of the project PROSPECTRA PROgram development by SPECification and TRAnsformation that aims to provide a rigorous methodology for developing correct software and a comprehensive support system The results are substantial a theoretically well founded methodology covering the whole development cycle a very high level specification and transformation language family allowing meta program development and formalization of the development process itself and a prototype development system supporting structure editing incremental static semantic checking interactive context sensitivetransformation and verification development of transformation meta programs version management and so on with an initial library of specifications and a sizeable collection of implemented transformations The intended audience for this documentation is the academic community working in this and related areas and those members of the industrial community interested in the use of formal methods *Proceedings of the Seventh International Workshop on Software Specification and Design*, 1993 Proceedings of the 7th International Workshop on Software Specification and Design held in Redondo Beach California in December 1993 Among the topics discussed real time systems concurrency and distribution formal reasoning and design methods and software architecture No index Annotation co *The Role of the High Level Specification in Programming by Transformation* Susan Mary Merritt, 1982 Software Specification Techniques Narain Gehani, Andrew D. McGettrick, 1986 *Proceedings Ninth International Workshop on Software Specification and Design*, 1998 Methods of Programming M. Broy, Martin Wirsing, 1991 The systematic development of software systems is a central task of computing science A software system is the result of putting together knowledge about the application the requirements and the structures of computing science Under the heading CIP Computer aided Intuition guided Programming a group of researchers led by Prof F L Bauer and Prof K Samelson started work in 1975 in the direction of formal program specification transformational programming and tool support for program development The collection of papers in this volume presents examples of a formal approach to programming language concepts and program development based on algebraic specifications and program transformations Examples are also presented of evolutions and modifications of the original ideas of the CIP project The topics range from descriptions of the program development process to derivations of algorithms from specifications The volume is dedicated to Prof F L Bauer PUBLISHER S WEBSITE *Official Gazette of the United States Patent and Trademark Office* United States. Patent and Trademark Office, 1997 *Programming Concepts, Methods and Calculi* E.-R. Olderog, 1994 **Software Development Tools** Raymond C. Houghton, 1982 **Frontiers in Algorithmics** Franco P. Preparata, Xiaodong Wu, Jianping Yin, 2008-05-30 This book constitutes the refereed proceedings of

the Second International Frontiers of Algorithmics Workshop FAW 2008 held in Changsha China in June 2008 The 33 revised full papers presented together with the abstracts of 3 invited talks were carefully reviewed and selected from 80 submissions The papers were selected for 9 special focus tracks in the areas of biomedical informatics discrete structures geometric information processing and communication games and incentive analysis graph algorithms internet algorithms and protocols parameterized algorithms design and analysis of heuristics approximate and online algorithms and machine learning

Program Specification and Transformation ,1987 **Constructing Programs from Specifications** Bernhard Möller,1991 This book contains papers and discussion transcripts giving a good survey of the state of the art in deriving programs from their specifications by algebraic means As opposed to the various refinement calculi for procedural programs the setting here is mostly that of functional or to cope with nondeterminacy relational languages First approaches to the classification of specifications allow the systematic solution of very general classes of problems Also the analysis of the structure of developments is shown in several examples Impressive work is presented in the area of automating standard derivation tasks both concerning semi automatic construction of efficient data type implementations and automatic transformation of functional specifications into efficient code Further papers address automatic program synthesis rapid prototyping and transformational derivation of parallel algorithms **Annual Symposium on Theoretical Aspects of Computer Science** ,1991 A Method of Program Refinement Jim Grundy,1993 Third International Workshop on Software Specification and Design ,1985 *The role of the high level specification in programming by transformation* Susan M. Merritt,1983

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