# program specification and transformation



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# **Program Specification And Transformation**

C.V. Ramamoorthy,Roger Y. Lee,Kyung Whan Lee

#### **Program Specification And Transformation:**

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 sensitive transformation and verification development of transformation meta programs version management and so on with an initial libraryof 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 **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 Specification and Transformation of Programs Helmut A. Partsch, 2012-12-06 Specification and developments 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 **Modern Software Tools for Scientific Computing** A. Bruaset, E. Arge, Hans Petter Langtangen, 2012-12-06 Looking back at the years that have passed since the

realization of the very first electronic multi purpose computers one observes a tremendous growth in hardware and software performance Today researchers and engi neers have access to computing power and software that can solve numerical problems which are not fully understood in terms of existing mathematical theory. Thus computational sciences must in many respects be viewed as experimental disciplines As a consequence there is a demand for high quality flexible software that allows and even encourages experimentation with alternative numerical strategies and mathematical models Extensibility is then a key issue the software must provide an efficient environment for incorporation of new methods and models that will be required in fu ture problem scenarios The development of such kind of flexible software is a challenging and expensive task One way to achieve these goals is to in vest much work in the design and implementation of generic software tools which can be used in a wide range of application fields In order to provide a forum where researchers could present and discuss their contributions to the described development an International Work shop on Modern Software Tools for Scientific Computing was arranged in Oslo Norway September 16 18 1996 This workshop informally referred to as Sci Tools 96 was a collaboration between SINTEF Applied Mathematics and the Departments of Informatics and Mathematics at the University Specification and Transformation of Programs Helmut A. Partsch, 1990-07-05 Specification and of Oslo 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 Transformation and Programming Environments F.L. Bauer, Peter Pepper, H. Remus, 2012-12-06 Proceedings of the NATO Advanced Research Workshop on Program Transformation and Programming Environments Software Engineering Research and Applications C.V. Ramamoorthy, Roger Y. Lee, Kyung Whan Lee, 2004-04-30 This book constitutes the thoroughly refereed post proceedings of the First International Conference on Software Engineering Research and Applications SERA 2003 held in San Francisco CA USA in June 2003 The 23 revised full papers presented were carefully selected from 104 initial submissions during two rounds of reviewing and improvement The papers are organized in topical sections on formal methods component based software engineering software quality requirements engineering reengineering and performance analysis knowledge

discovery and artificial intelligence and database retrieval and human computer interaction **Methods of Programming** M. Broy, 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 supportfor 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 VDM '91. Formal Software Development Methods. 4th International Symposium of VDM Europe, Noordwijkerhout, The Netherlands, October 21-25, 1991. Proceedings Soren Prehn, Hans Toetenel, 1991-10-14 The proceedings of the fourth Vienna Development Method Symposium VDM 91 are published here in two volumes Previous VDM symposia were held in 1987 LNCS 252 1988 LNCS 328 and 1990 LNCS 428 The VDM symposia have been organized by the VDM Europe formed in 1985 as an advisory board sponsored by the Commission of the European Communities The VDM Europe working group consisted of reasearchers software engineers and programmers all interested in prommoting the industrial usage of formal methods for software development The fourth VDM symposium presented not only VDM but also a large number of other methods for formal software development Volume 1 contains the conference contributions It has four parts contributions of invited speakers papers project reports and tools demonstration abstracts The emphasis is on methods and calculi for development verification and verification tools support experiences from doing developments and the associated theoretical problems Volume2 contains four introductory tutorials on LARCH Refinement Calculus VDM and RAISE and four advanced tutorials on ABEL PROSPECTRA THE B Method and The Stack They present a comprehensive account of the state of theart Applications of Graph Transformations with Industrial Relevance John L. Pfaltz, Manfred Nagl, Boris Böhlen, 2004-06-01 This book constitutes the thoroughly refereed post proceedings of the Second International Workshop on Applications of Graph Transformations with Industrial Relevance AGTIVE 2003 held in Charlotesville Virginia USA in September October 2003 The 27 revised full papers and 11 revised demo papers presented together with 2 invited papers and 5 workshop reports were carefully selected during iterated rounds of reviewing and revision The papers are organized in topical sections on Web applications data structures and data bases engineering applications agent oriented and functional programs and distribution object and aspect oriented systems natural languages processing and structuring reengineering reuse and integration modeling languages bioinformatics and multimedia picture and visual languages Automatic Program Development Olivier Danvy, Fritz Henglein, Harry Mairson, Alberto

Pettorossi, 2008-01-12 This work a tribute to renowned researcher Robert Paige is a collection of revised papers published in his honor in the Higher Order and Symbolic Computation Journal in 2003 and 2005 Among them there are two key papers a retrospective view of his research lines and a proposal for future studies in the area of the automatic program derivation The book also includes some papers by members of the IFIP Working Group 2 1 of which Bob was an active member Algorithm Derivation and Program Transformation Robert Paige, J.H. Reif, Ralph Wachter, 2007-08-28 This book contains selected papers from the ONR Workshop on Parallel Algorithm Design and Program Transformation that took place at New York University Courant Institute from Aug 30 to Sept 1 1991 The aim of the workshop was to bring together computer scientists in transformational programming and parallel algorithm design in order to encourage a sharing of ideas that might benefit both communities It was hoped that exposurt to algorithm design methods developed within the algorithm community would stimulate progress in software development for parallel architectures within the transformational community It was also hoped that exposure to syntax directed methods and pragmatic programming concerns developed within the transformational community would encourage more realistic theoretical models of parallel architectures and more systematic and algebraic approaches to parallel algorithm design within the algorithm community The workshop Organizers were Robert Paige John Reif and Ralph Wachter The workshop was sponsored by the Office of Naval Research under grant number N00014 90 J 1421 There were 44 attendees 28 presentations and 5 system demonstrations All attendees were invited to submit a paper for publication in the book Each submitted paper was refereed by participants from the Workshop The final decision on publication was made by the editors There were several motivations for holding the workshop and for publishing papers contributed by its participants Transformational programming and parallel computation are two emerging fields that may ultimately depend on each other for success Integration of Software Specification Techniques for Applications in Engineering Hartmut Ehrig, Werner Damm, Jörg Desel, Martin Große-Rhode, Wolfgang Reif, Eckehard Schnieder, Engelbert Westkämper, 2011-04-05 This book constitutes the documentation of the scientific outcome of the priority program Integration of Software Specification Techniques for Applications in Engineering sponsored by the German Research Foundation DFG It includes main contributions of the projects of the priority program and of additional international experts in the field Some of the papers included were presented at the related Third International Workshop on the topic INT 2004 held in Barcelona Spain in March 2004 The 25 revised full papers presented together with 6 section introductions by the volume editors were carefully reviewed and selected for inclusion in the book The papers are organized in topical sections on reference case study production automation reference case study traffic control systems petri nets and related approaches in engineering charts verification and integration modeling Re-Engineering Software Roy Rada, 2024-02-02 Creating software of any kind is an enormously expensive proposition whether for internal use or commercial application The range of activities involved in engineering and creating software are mind boggling in complexity Yet every time new software is

developed most programmers start from scratch without considering what might be re used or salvaged from existing programs Re Engineering Software addresses the principles approaches support systems underlying methodologies and real case examples for re using and thus building on previously existing software **Attribute Grammars and Their Applications** Pierre Deransart, Martin Jourdan, 1990-09-07 Proceedings Esprit '89 CEC, DG for Telecommunications, 2012-12-06 The 6th ESPRIT Conference is being held in Brussels from the 27th November to the 1 st December 1989 Well over 1500 participants from all over Europe are expected to attend the various events during the week The Conference will offer the opportunity to be updated on the results of ongoing Esprit projects and to develop Europe wide contacts with colleagues both within a specific branch of Information Technology and across different branches The first three days of the week are devoted to presentations of Esprit I projects structured into plenary and parallel sessions this year there is special emphasis on panels and workshops where participants can exchange ideas and hold in depth discussions on specific topics The different areas of Esprit work are covered Microelectronics Information Processing Systems Office and Business Systems Computer Integrated Manufac turing Basic Research and different aspects of the Information Exchange System During the IT Forum on Thursday 30th November major European industrial and political decision makers will address the audience in the morning In the afternoon different aspects of Technology Transfer will be discussed with the participation of outside experts and presentations on the future plans for community R D in IT will take place Intelligent Computing - IPMU '94 Bernadette Bouchon-Meunier, Ronald R. Yager, Lotfi A. Zadeh, 1995-06-26 This book presents a topical selection of full refereed research papers presented during the 5th International Conference on Information Processing and Management of Uncertainty in Knowledge Based Systems IPMU 94 held in Paris France in July 1994 The topical focus is on the role of uncertainty in the contruction of intelligent computing systems and it is shown how the concepts of AI neural networks and fuzzy logic can be utilized for that purpose In total there are presented 63 thoroughly revised papers organized in sections on fundamental issues theory of evidence networks probabilistic statistical and informational methods possibility theory logics chaos reusability and applications Formal Methods in Software and Systems Modeling Hans-Jörg Kreowski, Ugo Montanari, Fernando Orejas, Grzegorz Rozenberg, Gabriele Taentzer, 2005-02-09 By presenting state of the art research results on various aspects of formal and visual modeling of software and systems this book commemorates the 60th birthday of Hartmut Ehrig The 24 invited reviewed papers are written by students and collaborators of Hartmut Ehrig who are established researchers in their fields Reflecting the scientific interest and work of Hartmut Ehrig the papers fall into three main parts on graph transformation algebraic specification and logic and formal and visual modeling Generative Programming and Component Engineering Don Batory, C Consel (Charles), Walid Taha, 2002-09-23 This book constitutes the refereed proceedings of the ACM SIGPLAN SIGSOFT Conference on Generative Programming and Component Engineering GPCE 2002 held in Pittsburgh PA USA in October 2002 The 18 revised full papers

presented were carefully reviewed and selected from 39 submissions Among the topics covered are generative programming meta programming program specialization program analysis program transformation domain specific languages software architectures aspect oriented programming and component based systems *Semantic Integration of Heterogeneous Software Specifications* Martin Große-Rhode,2013-03-09 In a model based development of software systems different views on a system are elaborated using appropriate modeling languages and techniques Because of the unavoidable heterogeneity of the viewpoint models a semantic integration is required to establish the correspondences of the models and allow checking of their relative consistency The integration approach introduced in this book is based on a common semantic domain of abstract systems their composition and development Its applicability is shown through semantic interpretations and compositional comparisons of different specification approaches These range from formal specification techniques like process calculi Petri nets and rule based formalisms to semiformal software modeling languages like those in the UML family

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