

Formal methods

- Formal specification is part of a more general collection of techniques that are known as ‘formal methods’
- These are all based on mathematical representation and analysis of software
- Formal methods include
 - Formal specification
 - Specification analysis and proof
 - Transformational development
 - Program verification

Formal Specification And Software Development

Søren Prehn, W. J. Toetenel



Formal Specification And Software Development:

An Introduction to Formal Specification and Z Ben Potter, Jane Sinclair, David Till, 1991 An introduction to the ideas of formal specification Its features include discussions of formal methods of program development from specifications and management issues involved in the adoption of more formal approaches to software development Specification of Software Systems Vangalur S. Alagar, K. Periyasamy, 1998 This book provides an introduction to program specification illustrating the advantages it confers upon the software development process Covering all three major specification languages Larch VDM and Z the book discusses specification in general the abstraction process the mathematical tools required the main formal methods as well as examples of their use *Larch: Languages and Tools for Formal Specification* John V. Guttag, James J. Horning, 2012-12-06 Building software often seems harder than it ought to be It takes longer than expected the software's functionality and performance are not as wonderful as hoped and the software is not particularly malleable or easy to maintain It does not have to be that way This book is about programming and the role that formal specifications can play in making programming easier and programs better The intended audience is practicing programmers and students in undergraduate or basic graduate courses in software engineering or formal methods To make the book accessible to such an audience we have not presumed that the reader has formal training in mathematics or computer science We have however presumed some programming experience The roles of formal specifications Designing software is largely a matter of combining inventing and planning the implementation of abstractions The goal of design is to describe a set of modules that interact with one another in simple well defined ways If this is achieved people will be able to work independently on different modules and yet the modules will fit together to accomplish the larger purpose In addition during program maintenance it will be possible to modify a module without affecting many others Abstractions are intangible But they must somehow be captured and communicated That is what specifications are for Specification gives us a way to say what an abstraction is independent of any of its implementations *Foundations of Algebraic Specification and Formal Software Development* Donald Sannella, Andrzej Tarlecki, 2012-01-05 This book provides foundations for software specification and formal software development from the perspective of work on algebraic specification concentrating on developing basic concepts and studying their fundamental properties These foundations are built on a solid mathematical basis using elements of universal algebra category theory and logic and this mathematical toolbox provides a convenient language for precisely formulating the concepts involved in software specification and development Once formally defined these notions become subject to mathematical investigation and this interplay between mathematics and software engineering yields results that are mathematically interesting conceptually revealing and practically useful The theory presented by the authors has its origins in work on algebraic specifications that started in the early 1970s and their treatment is comprehensive This book contains five kinds of material the requisite mathematical foundations traditional

algebraic specifications elements of the theory of institutions formal specification and development and proof methods While the book is self contained mathematical maturity and familiarity with the problems of software engineering is required and in the examples that directly relate to programming the authors assume acquaintance with the concepts of functional programming The book will be of value to researchers and advanced graduate students in the areas of programming and theoretical computer science Formal Engineering for Industrial Software Development Shaoying Liu,2013-03-09 In any serious engineering discipline it would be unthinkable to construct a large system without having a precise notion of what is to be built and without verifying how the system is expected to function Software engineering is no different in this respect Formal methods involve the use of mathematical notation and calculus in software development such methods are difficult to apply to large scale systems with practical constraints e g limited developer skills time and budget restrictions changing requirements Here Liu claims that formal engineering methods may bridge this gap He advocates the incorporation of mathematical notation into the software engineering process thus substantially improving the rigor comprehensibility and effectiveness of the methods commonly used in industry This book provides an introduction to the SOFL Structured Object Oriented Formal Language method that was designed and industry tested by the author Written in a style suitable for lecture courses or for use by professionals there are numerous exercises and a significant real world case study so the readers are provided with all the knowledge and examples needed to successfully apply the method in their own projects Formal Specification and Software Development Dines Bjørner,Cliff B. Jones,1982 Formal specification meta language VDM and programming languages VDM and other systems **Formal Methods and Software Development** Mr. Rohit Manglik,2024-04-06 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *The Use of Formal Specification of Software* H.K. Berg,W.K. Giloi,2012-12-06 The notion that program design is an engineering task alleviating the software crisis has been with us for about a decade With the recognized advantages of obeying to certain software design disciplines we are approaching the era of enforced system development standards which will ensure that end products will meet rigorous design requirements On the one hand advances in system architecture fUrther the application of system development standards to software and firmware design and production On the other hand the growth in complexity of future system architectures in particular distri buted systems with their special problems of cooperation and parallelism necessitate the use of rigorous specification and design techniques In addition to hampering the design process the lack of engineering techniques hinders research In many cases trial designs that are presented in abstract and informal terms do not force the de signer to face the full problem spectrum and therefore may not sufficiently provide insight into the design process To prepare for the forthcoming discipline and to provide a snapshot view of recent advances in software and

firmware engineering we organized in June of 1979 a seminar entitled The Use of Formal Specification of Software and Firmware The seminar took place at the Heinrich Hertz Institute Berlin and attracted over 60 participants most of them from the industry

Software Reliability Handbook Rook,1990-03-31 The reliability of software is becoming increasingly important to a large range of industries that rely on complex computer systems and machinery with computer control The reliability of a system depends on both the hardware and the software that comprise the system Although faults in design can continue to give problems the issues and the techniques for meeting severe reliability requirements in hardware have been understood for some time In the case of software both the techniques and a positive attitude of software developers to the achievement of reliability are much less well established They are particularly crucial in the development of software dependent safety critical systems

Formal Software Development Quentin Charatan,Aaron Kans,2003-09-09 This is a gently paced software engineering text that concentrates on the use of formal methods for the development of high integrity software It assumes no previous knowledge of formal methods and presents a practical and comprehensive treatment of the subject suitable for second and third year undergraduates on computing courses and students on taught master s courses The book is packed with examples and exercises throughout

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,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.

VDM '91. Formal Software Development Methods. 4th International Symposium of VDM Europe, Noordwijkerhout, The Netherlands, October 21-25, 1991. Proceedings Søren Prehn, W. J. Toetenel, 1991. 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 researchers, software engineers and programmers all interested in promoting 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. Volume 2 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 the art.

PUBLISHER'S WEBSITE **ZB 2005: Formal Specification and Development in Z and B** Helen Treharne, Steve King, Martin Henson, Steve Schneider, 2005-04-07. This book constitutes the refereed proceedings of the 4th International Conference of Z and B users ZB 2005 held in Guildford, UK, in April 2005. The 25 revised full papers presented together with extended abstracts of 2 invited papers were carefully reviewed and selected for inclusion in the book. The papers document the recent advances for the Z formal specification notation and for the B method ranging from foundational theoretical and methodological issues to advanced applications, tools and case studies.

An Introduction to Formal Specification with Z and VDM Deri Sheppard, 1995. Formal methods emphasize the correct and efficient development of software. This text puts formal specification in the context of traditional methods of software development including object orientation, introducing these concepts and the necessary discrete maths before moving on to look at both Z and VDM in depth using the case study of a drinks dispensing machine.

Larch: Languages and Tools for Formal Specification John V. Guttag, James J. Horning, 1993-03-05. Building software often seems harder than it ought to be. It takes longer than expected, the software's functionality and performance are not as wonderful as hoped, and the software is not particularly malleable or easy to maintain. It does not have to be that way. This book is about programming and the role that formal specifications can play in making programming easier and programs better. The intended audience is practicing programmers and students in undergraduate or basic graduate courses in software engineering or formal methods. To make the book accessible to such an audience, we have not presumed that the reader has formal training in mathematics or

computer science We have however presumed some programming experience The roles of formal specifications Designing software is largely a matter of combining inventing and planning the implementation of abstractions The goal of design is to describe a set of modules that interact with one another in simple well defined ways If this is achieved people will be able to work independently on different modules and yet the modules will fit together to accomplish the larger purpose In addition during program maintenance it will be possible to modify a module without affecting many others Abstractions are intangible But they must somehow be captured and communicated That is what specifications are for Specification gives us a way to say what an abstraction is independent of any of its implementations

ZUM '95: The Z Formal Specification Notation Jonathan P. Bowen, 1995-08-23 This book presents the proceedings of the 9th International Conference of Z Users ZUM 95 held in Limerick Ireland in September 1995 The book contains 34 carefully selected papers on Z using Z applications of Z proof testing industrial usage object orientation animation of specification method integration and teaching formal methods Of particular interest is the inclusion of an annotated Z bibliography listing 544 entries While focussing on Z by far the most commonly used formal method both in industry and application the volume is of high relevance for the whole formal methods community

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 researchers software engineers and programmers all interested in promoting 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 Volume 2 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 the art

ZUM'97: The Z Formal Specification Notation Jonathan P. Bowen, Michael G. Hinchey, David Till, 1997-03-20 This book constitutes the refereed proceedings of the 10th International Conference of Z Users ZUM 97 held in Reading UK in April 1997 The volume presents 18 revised full papers together with three invited presentations by internationally leading experts The papers are organized into topical sections on real time systems tools logic system development reactive systems refinement and applications Also a select Z bibliography by Jonathan Bowen is added All in all the book competently reports the state of the art in research and advanced applications of the Z notation

The Software

Life Cycle Darrel Ince, Derek Andrews, 2014-05-20 The Software Life Cycle deals with the software lifecycle that is what exactly happens when software is developed Topics covered include aspects of software engineering structured techniques of software development and software project management The use of mathematics to design and develop computer systems is also discussed This book is comprised of 20 chapters divided into four sections and begins with an overview of software engineering and software development paying particular attention to the birth of software engineering and the introduction of formal methods of software development The next section explores some aspects of software engineering that tend to get ignored in the literature including functional programming functional programming languages and relational databases The reader is then introduced to structured methods of software development along with software project management The final chapter is devoted to software testing which can be functional or nonfunctional This monograph will be useful to software engineers and designers

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