

# The structure of an algebraic specification

SPECIFICATION NAME <Generic Parameters>

**sort** <name>

**imports** <LIST OF SPECIFICATION NAMES>

Informal description of the sort and its operations

Operation signatures setting out the names and the types of the parameters to the operations defined over the sort.

Axioms defining the operations over the sort

# Algebraic Specification

**Bastian Dölle**



## **Algebraic Specification:**

**Algebraic System Specification and Development** Michel Bidoit, 1991-06-26 Methods for the algebraic specification of abstract data types were proposed in the early 1970s in the USA and Canada and became a major research issue in Europe shortly afterwards. Since then the algebraic approach has come to play a central role in research on formal specification and development as its range of applications was extended to the specification of complete software systems to the formal description of the program development process and to the uniform definition of syntax and semantics of programming languages. Today this approach extends beyond just software to the development of integrated hardware and software systems. These flourishing activities in the area of algebraic specifications have led to an abundance of approaches, theories and concepts which have universal algebra, category theory and logic as a common mathematical basis. This volume is an annotated bibliography which provides an up to date overview of past and present work on algebraic specification. No attempt is made to provide a coherent introduction to the topic for beginners; the intention is rather to provide a guide to the current literature for researchers in algebraic specification and neighboring fields. Some indications of how the different approaches are related are included together with some ideas concerning possible future directions. **Algebraic**

**Specifications in Software Engineering** Ivo Van Horebeek, Johan Lewi, 2012-12-06 I prefer to view formal methods as tools the use of which might be helpful. E. W. Dijkstra: Algebraic specifications are about to be accepted by industry. Many projects in which algebraic specifications have been used as a design tool have been carried out. What prevents algebraic specifications from breaking through is the absence of introductory descriptions and tools supporting the construction of algebraic specifications. On the one hand interest from industry will stimulate people to make introductions and tools; whereas on the other hand the existence of introductions and tools will stimulate industry to use algebraic specifications. This book should be seen as a contribution towards creating this virtuous circle. The book will be of interest to software designers and programmers. It can also be used as material for an introductory course on algebraic specifications and software engineering at undergraduate or graduate level. Nowadays there is general agreement that in large software projects appropriate specifications are a must in order to obtain quality software. Informal specifications alone are certainly not appropriate because they are incomplete, inconsistent, inaccurate and ambiguous and they rapidly become bulky and therefore useless. The only way to overcome this problem is to use formal specifications. An important remark here is that a specification formalism language alone is not sufficient. What is also needed is a design method to write specifications in that formalism.

**Fundamentals of Algebraic Specification 2** Hartmut Ehrig, Bernd Mahr, 1989-12-28 Since the early seventies concepts of specification have become central in the whole area of computer science. Especially algebraic specification techniques for abstract data types and software systems have gained considerable importance in recent years. They have not only played a central role in the theory of data type specification but meanwhile have had a remarkable influence on programming.

language design system architectures and software tools and environments The fundamentals of algebraic specification lay a basis for teaching research and development in all those fields of computer science where algebraic techniques are the subject or are used with advantage on a conceptual level Such a basis however we do not regard to be a synopsis of all the different approaches and achievements but rather a consistently developed theory Such a theory should mainly emphasize elaboration of basic concepts from one point of view and in a rigorous way reach the state of the art in the field We understand fundamentals in this context as 1 Fundamentals in the sense of a carefully motivated introduction to algebraic specification which is understandable for computer scientists and mathematicians 2 Fundamentals in the sense of mathematical theories which are the basis for precise definitions constructions results and correctness proofs 3 Fundamentals in the sense of concepts from computer science which are introduced on a conceptual level and formalized in mathematical terms

**Algebraic Specification Techniques and Tools for Software Development** Ingo

Classen, Hartmut Ehrig, Dietmar Wolz, 1993 The intention of this book is to show how algebraic specification methods can be used for software development to support reliability modifiability and reusability These methods are introduced by parameterized and module specifications through practical examples and case studies using algebraic specification languages and tools developed at TU Berlin

Language Prototyping: An Algebraic Specification Approach Jan Heering, Paul Klint, Arie Van Deursen, 1996-09-30 Language prototyping provides a means to generate language implementations automatically from high level language definitions This volume presents an algebraic specification approach to language prototyping and is centered around the ASF SDF formalism and Meta Environment The volume is an integrated collection of articles covering a number of case studies and includes several chapters proposing new techniques for deriving advanced language implementations The accompanying software is freely available

**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 *Algebraic Specification Techniques in Object Oriented Programming Environments* Ruth Breu,1991-12-04 The main aim of this monograph is to provide a framework for the integrated design of object oriented programs with algebraic specification techniques The design method pursued relies fundamentally on the structuring of systems based on the notion of data types Depending on the level of abstraction data types are described in an object oriented way by algebraic specifications or by machine executable object oriented programs The treatment involves two main aspects First object oriented programs have to be related by a notion of correctness that models the transition from specifications to program implementations The author presents a notion of correctness which relies on the idea of abstraction functions Second in order to obtain an integrated design environment a uniform structuring concept for object oriented programs and algebraic specifications has to be provided Inheritance subtyping and clientship are three central notions of object oriented structuring The author uses them to develop the kernel of a typed object oriented programming language The monograph provides the formal foundation for a unified framework of algebraic specifications and object oriented programs A major guideline is the development of a design method supporting the structured design and reuse of software in this environment

**Semantics and Algebraic Specification** Jens Palsberg,2009-09-19 This Festschrift volume published to honor Peter D Mosses on the occasion of his 60th birthday includes 17 invited chapters by many of Peter s coauthors collaborators close colleagues and former students Peter D Mosses is known for his many contributions in the area of formal program semantics In particular he developed action semantics a combination of denotational operational and algebraic semantics The presentations given on a symposium in his honor in Udine Italy on September 10 2009 were on subjects related to Peter s many technical contributions and they were a tribute to his lasting impact on the field Topics addressed by the papers are action semantics security policy design colored petri nets order sorted parameterization and induction object oriented action semantics structural operational semantics model transformations the scheme programming language type checking action algebras and denotational semantics

**Fundamentals of Algebraic Specification 1** Hartmut Ehrig,Bernd Mahr,2012-12-06 The aim of this book is to present fundamentals of algebraic specifications with respect to the following three aspects fundamentals in the sense of a carefully motivated introduction to algebraic specifications which is easy to understand for computer scientists and mathematicians fundamentals in the sense of mathematical theories which are the basis for precise definitions constructions results and correctness proofs and fundamentals in the sense of concepts which are introduced on a conceptual level and formalized in mathematical terms The book is equally suitable as a text book for graduate courses and as a reference for researchers and system developers

Algebraic Foundations of Systems Specification Egidio Astesiano,Hans-Jörg Kreowski,Bernd Krieg-Brückner,2012-12-06

The aim of software engineering is the provision and investigation of methods for the development of software systems of high quality with correctness as a key issue. A system is called correct if it does what one wants if it meets the requirements. To achieve and to guarantee correct systems, the need of formal methods with rigorous semantics and the possibility of verification is widely accepted. Algebraic specification is a software engineering approach of this perspective. When Liskov and Zilles Gutttag and the ADJ group with Goguen Thatcher Wagner and Wright introduced the basic ideas of algebraic specification in the mid seventies in the U S A and Canada they initiated a very successful and still flourishing new area. In the late seventies algebraic specification became a major research topic also in many European countries. Originally the algebraic framework was intended for the mathematical foundation of abstract data types and the formal development of first order applicative programs. Meanwhile the range of applications has been extended to the precise specification of complete software systems, the uniform definition of syntax and semantics of programming languages and to the stepwise development of correct systems from the requirement definitions to the running programs. The activities in the last 25 years have led to an abundance of concepts, methods, approaches, theories, languages and tools which are mathematically founded in universal algebra, category theory and logic.

#### **Deriving Object-Oriented Specifications from Algebraic**

**Specifications through Refinement** Bastian Dölle, 2007      Specification, Algebra, and Software Shusaku Iida, José Meseguer, Kazuhiro Ogata, 2014-03-01. This Festschrift volume published in honor of Kokichi Futatsugi contains 31 invited contributions from internationally leading researchers in formal methods and software engineering. Prof Futatsugi is one of the founding fathers of the field of algebraic specification and verification and is a leading researcher in formal methods and software engineering. He has pioneered and advanced novel algebraic methods and languages supporting them such as OBJ and CafeOBJ and has worked tirelessly over the years to bring such methods and tools in contact with software engineering practice. This volume contains contributions from internationally leading researchers in formal methods and software engineering.

#### **Algebraic Methods: Theory, Tools and Applications** Martin Wirsing, Jan A. Bergstra, 1989-09-20

**Recent Trends in Algebraic Development Techniques** Martin Wirsing, 2003-11-24. This book constitutes the thoroughly refereed post proceedings of the 16th International Workshop on Algebraic Development Techniques WADT 2002 held at Frauenchiemsee, Germany in September 2002. The 20 revised full papers presented together with 6 invited papers were carefully improved and selected from 44 workshop presentations during two rounds of reviewing. The papers are devoted to topics like formal methods for system development, specification languages and methods, systems and techniques for reasoning about specifications, specification development, systems methods and techniques for concurrent distributed and mobile systems and algebraic and co algebraic methods.

#### **Attributed Algebraic Specifications** Bernhard Bauer, 1996

**Algebraic and Logic Programming** Michael Hanus, Jan Heering, Karl Meinke, 1997-08-20. This book constitutes the refereed proceedings of the 6th International Conference on Algebraic and Logic Programming ALP 97 and the 3rd

International Workshop on Higher Order Algebra Logic and Term Rewriting HOA 97 held jointly in Southampton UK in September 1997 The 18 revised full papers presented in the book were selected from 31 submissions The volume is divided in sections on functional and logic programming higher order methods term rewriting types lambda calculus and theorem proving methods

**Bibliography on Abstract Data Types** B. Kutzler, F. Lichtenberger, 2012-12-06 Sponsored by the sterr Fonds zur Förderung der Wissenschaftlichen Forschung project nr P4567

**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

**Software Specification Methods** Henri Habrias, Marc Frappier, 2013-03-01 This title provides a clear overview of the main methods and has a practical focus that allows the reader to apply their knowledge to real life situations The following are just some of the techniques covered UML Z TLA SAZ B OMT VHDL Estelle SDL and LOTOS

**Recent Trends in Data Type Specification** Michel Bidoit, Christine Choppy, 1993-01-29 The algebraic specification of abstract data types has been a flourishing research topic in computer science since 1974 The main goal of this work is to evolve theoretical foundations and a methodology to support the design and formal development of reliable software This volume gives the proceedings of the Eighth Workshop on Specification of Abstract Data Types held jointly with the Third COMPASS workshop near Paris in August 1991 The main topics covered by the joint workshop are specification languages and program development algebraic specification of concurrency theorem proving object oriented specifications order sorted algebras abstract implementation and behavioral semantics The volume contains four invited surveys and twelve contributed papers all of which underwent a careful refereeing process

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