

Tutorial

LNCS 2960

Peter D. Mosses (Ed.)

# CASL Reference Manual

The Complete Documentation of the  
Common Algebraic Specification Language



Springer



# CasI Reference Manual

**VM Jensen**



## **Casl Reference Manual:**

**CASL Reference Manual**, 2004      **CASL User Manual** Michel Bidoit, Peter D. Mosses, 2004-01-29 CASL the Common Algebraic Specification Language was designed by the members of CoFI the Common Framework Initiative for algebraic specification and development and is a general purpose language for practical use in software development for specifying both requirements and design CASL is already regarded as a de facto standard and various sublanguages and extensions are available for specific tasks This book illustrates and discusses how to write CASL specifications The authors first describe the origins aims and scope of CoFI and review the main concepts of algebraic specification languages The main part of the book explains CASL specifications with chapters on loose generated and free specifications partial functions sub and supersorts structuring specifications genericity and reusability architectural specifications and version control The final chapters deal with tool support and libraries and present a realistic case study involving the standard benchmark for comparing specification frameworks The book is aimed at software researchers and professionals and follows a tutorial style with highlighted points illustrative examples and a full specification and library index A separate complementary LNCS volume contains the CASL Reference Manual      [CASL Reference Manual](#) Peter D. Mosses, 2004-02-24 CASL the Common Algebraic Specification Language was designed by the members of CoFI the Common Framework Initiative for algebraic specification and development and is a general purpose language for practical use in software development for specifying both requirements and design CASL is already regarded as a de facto standard and various sublanguages and extensions are available for specific tasks This reference manual presents a detailed documentation of the CASL specification formalism It reviews the main underlying concepts and carefully summarizes the intended meaning of each construct of CASL The book formally defines both the syntax and semantics of CASL and presents a logic for reasoning about CASL specifications Furthermore extensive libraries of CASL specifications of basic data types are provided as well as a comprehensive annotated bibliography of CoFI publications As a separate complementary book LNCS 2900 presents a tutorial introduction to CASL the CASL User Manual      **CASL User Manual** Michel Bidoit, Peter D. Mosses, 2004-01-29 CASL the Common Algebraic Specification Language was designed by the members of CoFI the Common Framework Initiative for algebraic specification and development and is a general purpose language for practical use in software development for specifying both requirements and design CASL is already regarded as a de facto standard and various sublanguages and extensions are available for specific tasks This book illustrates and discusses how to write CASL specifications The authors first describe the origins aims and scope of CoFI and review the main concepts of algebraic specification languages The main part of the book explains CASL specifications with chapters on loose generated and free specifications partial functions sub and supersorts structuring specifications genericity and reusability architectural specifications and version control The final chapters deal with tool support and libraries and present a realistic case study involving the standard benchmark for comparing

specification frameworks The book is aimed at software researchers and professionals and follows a tutorial style with highlighted points illustrative examples and a full specification and library index A separate complementary LNCS volume contains the CASL Reference Manual Formal Methods for Software Engineering Markus Roggenbach, Antonio Cerone, Bernd-Holger Schlingloff, Gerardo Schneider, Siraj Ahmed Shaikh, 2022-06-22 Software programs are formal entities with precise meanings independent of their programmers so the transition from ideas to programs necessarily involves a formalisation at some point The first part of this graduate level introduction to formal methods develops an understanding of what constitutes formal methods and what their place is in Software Engineering It also introduces logics as languages to describe reasoning and the process algebra CSP as a language to represent behaviours The second part offers specification and testing methods for formal development of software based on the modelling languages CASL and UML The third part takes the reader into the application domains of normative documents human machine interfaces and security Use of notations and formalisms is uniform throughout the book Topics and features Explains foundations and introduces specification verification and testing methods Explores various application domains Presents realistic and practical examples illustrating concepts Brings together contributions from highly experienced educators and researchers Offers modelling and analysis methods for formal development of software Suitable for graduate and undergraduate courses in software engineering this uniquely practical textbook will also be of value to students in informatics as well as to scientists and practical engineers who want to learn about or work more effectively with formal theories and methods Markus Roggenbach is a Professor in the Dept of Computer Science of Swansea University Antonio Cerone is an Associate Professor in the Dept of Computer Science of Nazarbayev University Nur Sultan Bernd Holger Schlingloff is a Professor in the Institut für Informatik of Humboldt Universität zu Berlin Gerardo Schneider is a Professor in the Dept of Computer Science and Engineering of University of Gothenburg Siraj Ahmed Shaikh is a Professor in the Institute for Future Transport and Cities of Coventry University The companion site for the book offers additional resources including further material for selected chapters prepared lab classes a list of errata slides and teaching material and virtual machines with preinstalled tools and resources for hands on experience with examples from the book The URL is <https://sefm-book.github.io> **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 Recent Trends in Algebraic Development Techniques José Luiz Fiadeiro, Peter

Mosses, Fernando Orejas, 2005-02-26 This volume contains selected papers from WADT 2004 the 17th International Workshop on Algebraic Development Techniques      Recent Trends in Algebraic Development Techniques ,1999      Dvorak's Guide to Desktop Telecommunications John C. Dvorak, Nick Anis, 1990 This is a modified version of the bestselling Dvorak's Guide to PC Telecommunications New chapters on communicating with DOS OS 2 AMIGA and under UNIX have been added By adding this material a user of any machine can use the book and users of one machine can know how it is done on others and will learn how to communicate with others      *Computer Science Logic* ,2004      **Algebraic Methodology and Software Technology** ,2004      **PC Magazine Guide to Modem Communications** Les Freed, Frank J. Derfler, 1992 Get the most from PC communications with this step by step guide to the labyrinth of hardware software and on line services Two acclaimed experts cover the fundamentals of modem communications and provide scores of tips and insights on purchasing the right equipment and using bulletin board systems and modems for business applications      **Formal Ontology in Information Systems** Achille C. Varzi, Laure Vieu, 2004 Just as ontology developed over the centuries as part of philosophy so in recent years ontology has become intertwined with the development of the information sciences Researchers in such areas as artificial intelligence formal and computational linguistics biomedical informatics conceptual modeling knowledge engineering and information retrieval have come to realize that a solid foundation for their research calls for serious work in ontology understood as a general theory of the types of entities and relations that make up their respective domains of inquiry In all these areas attention has started to focus on the content of information rather than on just the formats and languages in terms of which information is represented A clear example of this development is provided by the many initiatives growing up around the project of the Semantic Web And as the need for integrating research in these different fields arises so does the realization that strong principles for building well founded ontologies might provide significant advantages over ad hoc case based solutions The tools of Formal Ontology address precisely these needs but a real effort is required in order to apply such philosophical tools to the domain of Information Systems Reciprocally research in the information science raises specific ontological questions which call for further philosophical investigations      *Ontologies for Urban Development* Jacques Teller, 2007-06-05 Action C21 of the European programme for Cooperation in the field of Scientific and Technical Research COST <http://www.cost.esf.org> is dedicated to investigating urban ontologies for an improved communication in urban civil engineering projects The Action known informally as Towntology brings together a large and heterogeneous grouping from across Europe whose interests range from construction to urban tourism and from transport infrastructure to resource visualisation On 6-7 November 2006 in Geneva the Action convened a successful workshop to address emerging issues in the field This volume presents the contributions to that workshop in many cases revised afterwards to capture some of the outcomes of discussion Many of these contributions are from members of the Towntology group but there are also contributions from other European researchers and from researchers in the US The volume

represents a valuable overview of major current issues in the field of urban ontologies and encapsulates many useful and different approaches We hope that it will serve not only as a worthy outcome of Action C21 but also as a valuable resource for a wide range of researchers

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