

# Lecture Notes in Computer Science

2900

Edited by G. Goos, J. Hartmanis, and J. van Leeuwen

**Springer**

*Berlin*

*Heidelberg*

*New York*

*Hong Kong*

*London*

*Milan*

*Paris*

*Tokyo*

Michel Bidoit Peter D. Mosses

# CASL

## User Manual

Introduction to Using the  
Common Algebraic Specification Language

With chapters by

Till Mossakowski, Donald Sannella,  
and Andrzej Tarlecki



Springer

## Series Editors

Gerhard Goos, Karlsruhe University, Germany  
Juris Hartmanis, Cornell University, NY, USA  
Jan van Leeuwen, Utrecht University, The Netherlands

## Authors

Michel Bidoit  
Laboratoire Spécification et Vérification, CNRS UMR 8643  
École Normale Supérieure de Cachan  
61, Avenue du Président Wilson, 94235 Cachan Cedex, France  
E-mail: bidoit@lsv.ens-cachan.fr

Peter D. Mosses  
University of Aarhus, BRICS and Department of Computer Science  
Aabogade 34, 8200 Aarhus N, Denmark  
E-mail: pdmosses@brics.dk

Cataloging-in-Publication Data applied for

A catalog record for this book is available from the Library of Congress.

Bibliographic information published by Die Deutsche Bibliothek  
Die Deutsche Bibliothek lists this publication in the Deutsche Nationalbibliografie;  
detailed bibliographic data is available in the Internet at <<http://dnb.ddb.de>>.

CR Subject Classification (1998): D.2.1, D.3.1, D.2, D.3, F.3

ISSN 0302-9743

ISBN 3-540-20766-X Springer-Verlag Berlin Heidelberg New York

This work is subject to copyright. All rights are reserved, whether the whole or part of the material is concerned, specifically the rights of translation, reprinting, re-use of illustrations, recitation, broadcasting, reproduction on microfilms or in any other way, and storage in data banks. Duplication of this publication or parts thereof is permitted only under the provisions of the German Copyright Law of September 9, 1965, in its current version, and permission for use must always be obtained from Springer-Verlag. Violations are liable for prosecution under the German Copyright Law.

Springer-Verlag is a part of Springer Science+Business Media  
[springeronline.com](http://springeronline.com)

© 2004 IFIP International Federation for Information Processing, Hofstrasse 3, A-2361 Laxenburg, Austria  
Printed in Germany

Typesetting: Camera-ready by author, data conversion by Olgun Computergrafik  
Printed on acid-free paper SPIN: 10931011 06/3142 5 4 3 2 1 0