

# Lecture Notes in Computer Science

Edited by G. Goos and J. Hartmanns

285

Carlos Delgado Kloos

Semantics of Digital Circuits



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# Semantics Of Digital Circuits Lecture Notes In Computer Science 285

**D. Borrione, R. Waxman**



## **Semantics Of Digital Circuits Lecture Notes In Computer Science 285:**

*Semantics of Digital Circuits* Carlos Delgado Kloos,1987      *Formal Semantics for VHDL* Carlos Delgado Kloos,P. Breuer,2012-12-06 It is recognized that formal design and verification methods are an important requirement for the attainment of high quality system designs The field has evolved enormously during the last few years resulting in the fact that formal design and verification methods are nowadays supported by several tools both commercial and academic If different tools and users are to generate and read the same language then it is necessary that the same semantics is assigned by them to all constructs and elements of the language The current IEEE standard VHDL language reference manual LRM tries to define VHDL as well as possible in a descriptive way explaining the semantics in English But rigor and clarity are very hard to maintain in a semantics defined in this way and that has already given rise to many misconceptions and contradictory interpretations Formal Semantics for VHDL is the first book that puts forward a cohesive set of semantics for the VHDL language The chapters describe several semantics each based on a different underlying formalism two of them use Petri nets as target language and two of them higher order logic Two use functional concepts and finally another uses the concept of evolving algebras Formal Semantics for VHDL is essential reading for researchers in formal methods and can be used as a text for an advanced course on the subject      **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 modificationsof 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      *Theoretical Foundations of VLSI Design* K. McEvoy,J. V. Tucker,2003-12-04 Recent research on the physical technologies of very large scale integration VLSI      *Computer Hardware Description Languages and their Applications* D. Borriore,R. Waxman,2014-06-28 The topic areas presented within this volume focus on design environments and the applications of hardware description and modelling including simulation verification by correctness proofs synthesis and test The strong relationship between the topics of CHDL 91 and the work around the use and re standardization of the VHDL language is also explored The quality of this proceedings and its significance to the academic and professional worlds is assured by the excellent technical programme here compiled      **Network Algebra** Gheorghe Stefanescu,2012-12-06 Network Algebra considers the algebraic study of networks and their behaviour It contains general results on the algebraic

theory of networks recent results on the algebraic theory of models for parallel programs as well as results on the algebraic theory of classical control structures The results are presented in a unified framework of the calculus of flownomials leading to a sound understanding of the algebraic fundamentals of the network theory The term network is used in a broad sense within this book as consisting of a collection of interconnecting cells and two radically different specific interpretations of this notion of networks are studied One interpretation is additive when only one cell is active at a given time this covers the classical models of control specified by finite automata or flowchart schemes The second interpretation is multiplicative where each cell is always active covering models for parallel computation such as Petri nets or dataflow networks More advanced settings mixing the two interpretations are included as well Network Algebra will be of interest to anyone interested in network theory or its applications and provides them with the results needed to put their work on a firm basis Graduate students will also find the material within this book useful for their studies

*Prospects for Hardware Foundations*  
Bernhard Möller, John V. Tucker, 2003-07-31 Preface VI I X Table of Contents B M ller and J V Tucker Eds Prospects for Hardware Foundations LNCS 1546 pp 1 26 1998 Springer Verlag Berlin Heidelberg 1998 2 The NADA Group Introduction NADA and NIL 3 4 The NADA Group Introduction NADA and NIL 5 6 The NADA Group Introduction NADA and NIL 7 8 The NADA Group Introduction NADA and NIL 9 10 The NADA Group Introduction NADA and NIL 11 12 The NADA Group Introduction NADA and NIL 13 14 The NADA Group Introduction NADA and NIL 15 16 The NADA Group Introduction NADA and NIL 17 18 The NADA Group Introduction NADA and NIL 19 20 The NADA Group Introduction NADA and NIL 21 22 The NADA Group Introduction NADA and NIL 23 24 The NADA Group Introduction NADA and NIL 25 26 The NADA Group Streams Stream Transformers and Domain Representations B M ller and J V Tucker Eds Prospects for Hardware Foundations LNCS 1546 pp 27 68 1998 Springer Verlag Berlin Heidelberg 1998 28 J Blanck V Stoltenberg Hansen and J V Tucker Streams Stream Transformers and Domain Representations 29 30 J Blanck V Stoltenberg Hansen and J V Tucker Streams Stream Transformers and Domain Representations 31 32 J Blanck V Stoltenberg Hansen and J V Tucker Streams Stream Transformers and Domain Representations 33 34 J Blanck V Stoltenberg Hansen and J V Tucker Streams Stream Transformers and Domain Representations 35 36 J Blanck V Stoltenberg Hansen and J V Tucker Streams Stream Transformers and Domain Representations 37

**Designing Correct Circuits** Geraint Jones, Mary Sheeran, 2013-12-14 These proceedings contain the papers presented at a workshop on Designing Correct Circuits jointly organised by the Universities of Oxford and Glasgow and held in Oxford on 26 28 September 1990 There is a growing interest in the application to hardware design of the techniques of software engineering As the complexity of hardware systems grows and as the cost both in money and time of making design errors becomes more apparent so there is an eagerness to build on the success of mathematical techniques in program development The harsher constraints on hardware designers mean both that there is a greater need for good abstractions and rigorous assurances of the trustworthiness of designs and also that there is

greater reason to expect that these benefits can be realised The papers presented at this workshop consider the application of mathematics to hardware design at several different levels of abstraction At the lowest level of this spectrum Zhou and Hoare show how to describe and reason about synchronous switching circuits using UNiY a formalism that was developed for reasoning about parallel programs Aagaard and Leeser use standard mathematical techniques to prove correct their implementation of an algorithm for Boolean simplification The circuits generated by their formal synthesis system are thus correct by construction Thuau and Pilaud show how the declarative language LUSTRE which was designed for programming real time systems can be used to specify synchronous circuits

**The Munich Project CIP**, 1988-01-13 This book is the second of two volumes that present the main results which emerged from the project CIP Computer Aided Intuition Guided Programming at the Technical University of Munich Its central theme is program development by transformation a methodology which is becoming more and more important Whereas Volume I contains the description and formal specification of a wide spectrum language CIP L particularly tailored to the needs of transformational programming Volume II serves a double purpose First it describes a system called CIP S that is to assist a programmer in the method of transformational programming Second it gives a non toy example for this very method since it contains a formal specification of the system core and transformational developments for the more interesting system routines Based on a formal calculus of program transformations the informal requirements for the system are stated Then the system core is formally specified using the algebraic data types and the pre algorithmic logical constructs of the wide spectrum language CIP L It is demonstrated how executable procedural level programs can be developed from this specification according to formal rules The extensive collection of these rules is also contained in the book it can be used as the basis for further developments using this method Since the system has been designed in such a way that it is parameterized with the concrete programming language to be transformed the book also contains a guide how to actualize this parameter the proceeding is exemplified with a small subset of CIP L

**Encyclopedia of Microcomputers** Allen Kent, James G. Williams, 2000-06-30 This encyclopaedia covers An Algorithm for Abductive Inference in Artificial Intelligence to Web Financial Information System Server

Automatic Verification Methods for Finite State Systems Joseph Sifakis, 1990-01-10 This volume contains the proceedings of a workshop held in Grenoble in June 1989 This was the first workshop entirely devoted to the verification of finite state systems The workshop brought together researchers and practitioners interested in the development and use of methods tools and theories for automatic verification of finite state systems The goal at the workshop was to compare verification methods and tools to assist the applications designer The papers in this volume review verification techniques for finite state systems and evaluate their relative advantages The techniques considered cover various specification formalisms such as process algebras automata and logics Most of the papers focus on exploitation of existing results in three application areas hardware design communication protocols and real time systems

Foundations of Software Technology and

Theoretical Computer Science Kesav V. Nori, Sanjeev Kumar, 1988-11-17 This volume contains the proceedings of the 8th Conference on Foundations of Software Technology and Theoretical Computer Science held in Pune India on December 21-23 1988 This internationally well established Indian conference series provides a forum for actively investigating the interface between theory and practice of Software Science It also gives an annual occasion for interaction between active research communities in India and abroad Besides attractive invited papers the volume contains carefully reviewed submitted papers on the following topics Automata and Formal Languages Graph Algorithms and Geometric Algorithms Distributed Computing Parallel Algorithms Database Theory Logic Programming Programming Methodology Theory of Algorithms Semantics and Complexity

Specification and Development of Interactive Systems Manfred Broy, Ketil Stølen, 2012-12-06 This book presents a fundamental mathematical and logical approach to software and systems engineering Considering the large number of books describing mathematical approaches to program development it is important to explain what we consider to be the specific contribution of our book to identify our goals and to characterize our intended target audience Most books dealing with the mathematics and logics of programming and system development are mainly devoted to programming in the small This is in contrast to our book where the emphasis is on modular system development with the help of component specifications with precisely identified interfaces and refinement concepts Our book aims at systems development carried out in a systematic way based on a clear mathematical theory We do not claim that this book presents a full blown engineering method In fact this is certainly not a book for the application driven software engineer looking for a practical method for system development in an industrial context It is much rather a book for the computer scientist and the scientifically interested engineer who looks for basic principles of system development and moreover its mathematical foundations It is also a book for method builders interested in a proper mathematical foundation on which they can build a practical development method and industrial strength support tools

*Programming Methodology* Annabelle McIver, Carroll Morgan, 2002-10-01 Written by the members of the IFIP Working Group 2.3 Programming Methodology this text constitutes an exciting reference on the front line of research activity in programming methodology The range of subjects reflects the current interests of the members and will offer insightful and controversial opinions on modern programming methods and practice The material is arranged in thematic sections each one introduced by a problem which epitomizes the spirit of that topic The exemplary problem will encourage vigorous discussion and will form the basis for an introduction tutorial for its section

**MFDBS 89** Janos Demetrovics, Bernhard Thalheim, 1989-05-30 This volume is a collection of the most important contributions presented at the second MFDBS conference held in Visegrád Hungary June 26-30 1989 The papers selected from more than one hundred submissions originating from 23 countries in 4 continents can be roughly divided into the following sections theoretical fundamentals of relational databases logical foundations and databases data modelling database design deductive databases transaction management and security concurrency control and distributed databases

The volume reflects the current state of knowledge and is a guide to further development in database theory **Symbolic and Algebraic Computation** Patrizia Gianni, 1989-08-23 The ISSAC 88 is the thirteenth conference in a sequence of international events started in 1966 thanks to the then established ACM Special Interest Group on Symbolic and Algebraic Manipulation SIGSAM For the first time the two annual conferences International Symposium on Symbolic and Algebraic Computation ISSAC and International Conference on Applied Algebra Algebraic Algorithms and Error Correcting Codes AAEECC have taken place as a Joint Conference in Rome July 4 8 1988 Twelve invited papers on subjects of common interest for the two conferences are included in the proceedings and divided between this volume and the preceding volume of Lecture Notes in Computer Science which is devoted to AAEECC 6 This book contains contributions on the following topics Symbolic Algebraic and Analytical Algorithms Automatic Theorem Proving Automatic Programming Computational Geometry Problem Representation and Solution Languages and Systems for Symbolic Computation Applications to Sciences Engineering and Education Statistical and Scientific Database Management Maurizio Rafanelli, John C. Klensin, Per Svensson, 1989-02-08 The Fourth International Working Conference on Statistical and Scientific Data Base Management IV SSDBM held on June 21 23 1988 in Rome Italy continued the series of conferences initiated in California in December 1981 The purpose of this conference was to bring together database researchers users and system builders working in this specific field to discuss the particular points of interest to propose new solutions to the problems of the domain and to expand the topics of the previous conferences both from the theoretical and from the applicational point of view The papers of four scientific sessions dealt with the following topics knowledge base and expert system data model natural language processing query language time performance user interface heterogeneous data classification storage constraints automatic drawing ranges and trackers and arithmetic coding Two other special sessions presented work on progress papers on geographical data modelling spatial database queries user interface in an Object Oriented SDB interpretation of queries graphical query language and knowledge browsing front ends The conference also had three invited papers on topics of particular interest such as Temporal Data Statistical Data Management Requirements and Knowledge Based Decision Support Systems included in this volume The introductory paper by M Rafanelli provides both an introduction to the general concepts helpful to people outside the field and a survey of all the papers in these Proceedings Furthermore there were three open panels Papers by the chairmen contributions of the panelists and a summary of the respective discussions are included in this volume too CSL '87 Egon Börger, Hans Kleine Büning, Michael M. Richter, 1988-09-14 This volume contains the papers which were presented to the workshop Computer Science Logic held in Karlsruhe on October 12 16 1987 Traditionally Logic or more specifically Mathematical Logic splits into several subareas Set Theory Proof Theory Recursion Theory and Model Theory In addition there is what sometimes is called Philosophical Logic which deals with topics like nonclassical logics and which for historical reasons has been developed mainly at philosophical departments rather than at mathematics institutions Today Computer

Science challenges Logic in a new way The theoretical analysis of problems in Computer Science for intrinsic reasons has pointed back to Logic A broad class of questions became visible which is of a basically logical nature These questions are often related to some of the traditional disciplines of Logic but normally without being covered adequately by any of them The novel and unifying aspect of this new branch of Logic is the algorithmic point of view which is based on experiences people had with computers The aim of the Computer Science Logic workshop and of this volume is to represent the richness of research activities in this field in the German speaking countries and to point to their underlying general logical principles

ICDT '88 M. Gyssens (Marc), Jan Paredaens, D. Van Gucht (Dirk), 1988 This volume is the proceedings of the second International Conference on Database Theory ICDT held in Bruges Belgium August 31 September 2 1988 ICDT intends to provide a European forum for the international research community working on theoretical issues related to database and knowledge base systems The proceedings of this conference contain all invited and accepted papers which represent the latest results obtained in ongoing research in database theory worldwide Most major themes of research in database theory are covered in ICDT 88 the relational model logic and databases object oriented databases deductive databases conceptual models analysis and design of data structures query languages concurrency control and updates and transactions

*Mathematics of Program Construction* Jan L.A. van de Snepscheut, 1989-06-07 The papers included in this volume were presented at the Conference on Mathematics of Program Construction held from June 26 to 30 1989 The conference was organized by the Department of Computing Science Groningen University The Netherlands at the occasion of the University's 375th anniversary The creative inspiration of the modern computer has led to the development of new mathematics the mathematics of program construction Initially concerned with the posterior verification of computer programs the mathematics have now matured to the point where they are actively being used for the discovery of elegant solutions to new programming problems Initially concerned specifically with imperative programming the application of mathematical methodologies is now established as an essential part of all programming paradigms functional logic and object oriented programming modularity and type structure etc Initially concerned with software only the mathematics are also finding fruit in hardware design so that the traditional boundaries between the two disciplines have become blurred The varieties of mathematics of program construction are wide ranging They include calculi for the specification of sequential and concurrent programs program transformation and analysis methodologies and formal inference systems for the construction and analysis of programs The mathematics of specification implementation and analysis have become indispensable tools for practical programming

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