Simulation is performed after each transformation.

```
Top level: The "idea" or concept

Behavioral Description          Technology Dependent Network

Floor
Planning        Behavioral Synthesis            Layout

                                          (timing     verification)

            RTL Description                 Mask Data

(functional     verification)

            Logic Synthesis                Manufacturing

            Gate Description                 Product

            Technology Mapping      Wafer Sort and Package Test
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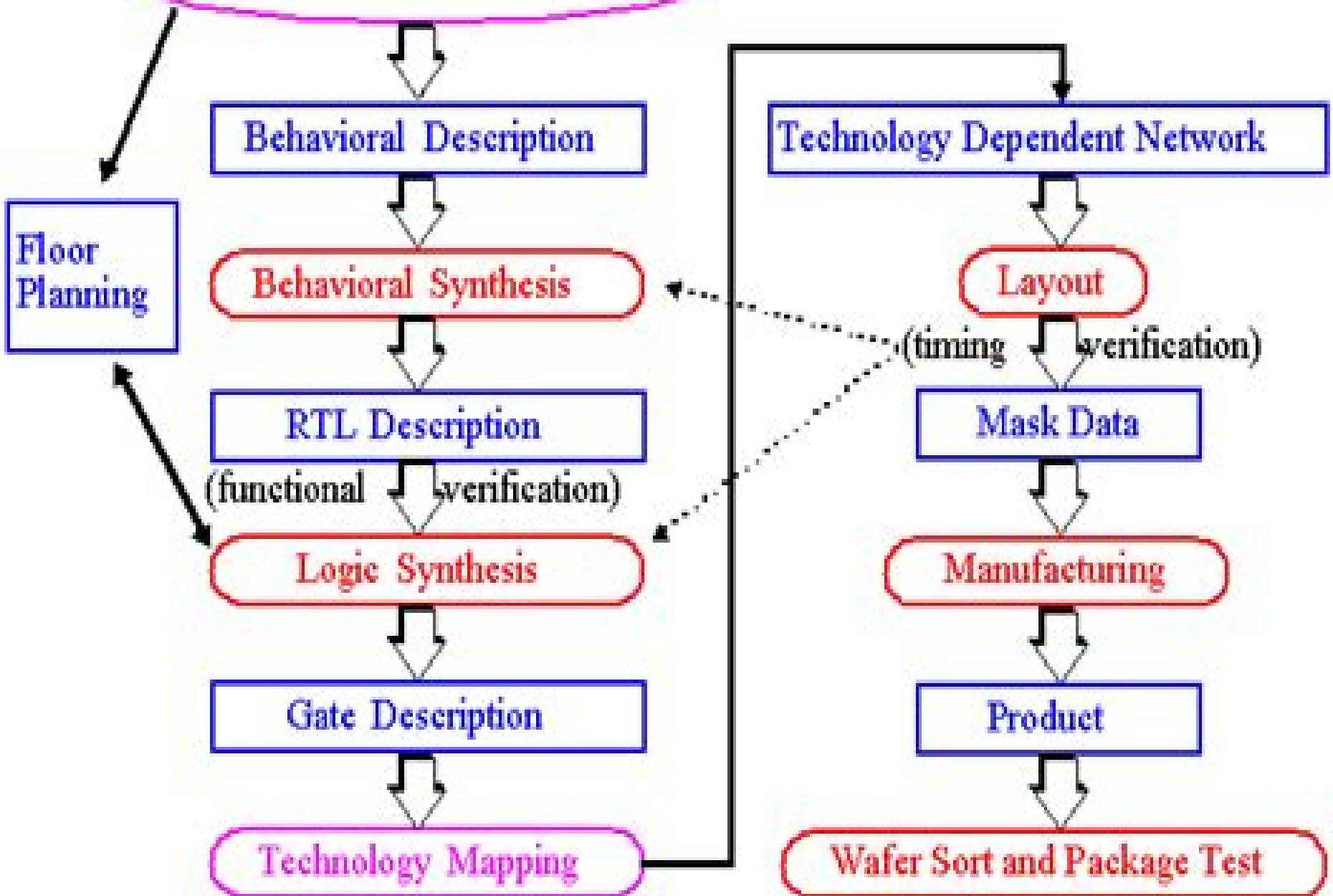
Formal Specification And Verification In Vlsi Design

Jonathan P. Bowen,Michael G. Hinchey

Formal Specification And Verification In Vlsi Design:

Formal Specification and Verification in VLSI Design Bruce S. Davie,1990 *Formal Specification and Verification of Hierarchical VLSI Design* Youm Huh,1985 Formal Specification and Verification of Digital Systems George J. Milne,1994 Correct Hardware Design and Verification Methods George J. Milne,Laurence Pierre,1993-05-12 These proceedings contain the papers presented at the Advanced Research Working Conference on Correct Hardware Design Methodologies held in Arles France in May 1993 and organized by the ESPRIT Working Group 6018 CHARME 2and the Universit de Provence Marseille in cooperation with IFIP Working Group 10 2 Formal verification is emerging as a plausible alternative to exhaustive simulation for establishing correct digital hardware designs The validation of functional and timing behavior is a major bottleneck in current VLSI design systems slowing the arrival of products in the marketplace with its associated increase in cost From being a predominantly academic area of study until a few years ago formal design and verification techniques are now beginning to migrate into industrial use As we are now witnessing an increase in activity in this area in both academia and industry the aim of this working conference was to bring together researchers and users from both communities 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 **High-Integrity System Specification and Design** Jonathan P. Bowen,Michael G. Hinchey,2012-12-06 Errata detected in Taylor s Logarithms London 4to 1792 sic 14 18 3 6 Kk Co sine of 3398 3298 Nautical Almanac 1832 In the list of ERRATA detected in Taylor s Logarithms for cos 4 18 3 read cos 14 18 2 Nautical Almanac 1833 ERRATUM ofthe ERRATUM ofthe ERRATA of TAYLOR S Logarithms For cos 4 18 3 read cos 14 18 3 Nautical Almanac 1836 In the 1820s an Englishman named Charles Babbage designed and partly built a calculating machine originally intended for use in deriving and printing logarithmic and other tables used in the shipping industry At that time such tables were often inaccurate copied carelessly and had been instrumental in causing a number of maritime disasters Babbage s machine called a Difference Engine because it performed its cal culations using the principle of partial differences was intended to substantially reduce the number of errors made by humans calculating the tables Babbage had also designed but never built a forerunner of the modern printer which would also reduce the number of errors admitted during the transcription of the results Nowadays a system implemented to perform the function of Babbage s engine would be classed as safety critical That is the failure of the system to produce correct results could result in the loss of human life mass destruction of property in the form of ships and cargo as well as financial losses and loss of competitive

advantage for the shipping firm   VLSI Specification, Verification and Synthesis Graham Birtwistle,P.A. Subrahmanyam,2012-12-06 VLSI Specification Verification and Synthesis Proceedings of a workshop held in Calgary from 12 16 January 1987 The collection of papers in this book represents some of the discussions and presentations at a workshop on hardware verification held in Calgary January 12 16 1987 The thrust of the workshop was to give the floor to a few leading researchers involved in the use of formal approaches to VLSI design and provide them ample time to develop not only their latest ideas but also the evolution of these ideas In contrast to simulation where the objective is to assist in detecting errors in system behavior in the case of some selected inputs the intent of hardware verification is to formally prove that a chip design meets a specification of its intended behavior for all acceptable inputs There are several important applications where formal verification of designs may be argued to be cost effective Examples include hardware components used in safety critical applications such as flight control industrial plants and medical life support systems such as pacemakers The problems are of such magnitude in certain defense applications that the UK Ministry of Defense feels it cannot rely on commercial chips and has embarked on a program of producing formally verified chips to its own specification Hospital civil aviation and transport boards in the UK will also use these chips A second application domain for verification is afforded by industry where specific chips may be used in high volume or be remotely placed   **Formal Aspects of VLSI Design** George J. Milne,P. A. Subrahmanyam,1986 Formal aspects of VLSI design Towards verifiably correct VLSI design Design transformation and chip planning Digital design in a functional calculus The algebraic basis of an expert system for VLSI design Specification and VLSI design Current work on the semantics of digital systems Automatic circuit verification using temporal logic two new examples Can a simulator verify a circuit Formal verification of synchronous systems Why higher order logic is a good formalism for specifying and verifying hardware Specification and verification using higher order logic a case study   **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 fonnal 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   *Industrial Applications of Formal Methods to Model, Design and Analyze Computer Systems* Dan Craigen,Susan Gerhart,2012-12-02 Formal methods are mathematically based techniques often supported by reasoning tools that can offer a rigorous and effective way to model design and analyze computer systems The purpose of this study is to evaluate international industrial experience in using formal methods The cases selected are representative of industrial grade projects and span a variety of application domains The study had three main objectives To better inform deliberations within industry and government on standards and regulations To provide an authoritative record on the practical experience of formal methods to date and To suggest areas where future research and technology development are needed This study was undertaken by three experts in formal methods and software engineering Dan Craigen of ORA Canada Susan Gerhart of Applied Formal Methods and Ted Ralston of Ralston Research Associates Robin Bloomfield of Adelard was involved with the Darlington Nuclear Generating Station Shutdown System case Support for this study was provided by organizations in Canada and the United States The Atomic Energy Control Board of Canada AECB provided support for Dan Craigen and for the technical editing provided by Karen Summerskill The U S Naval Research Laboratories NRL Washington DC provided support for all three authors The U S National Institute of Standards and Technology NIST provided support for Ted Ralston   Formal Methods in Circuit Design Victoria Stavridou,1993-07-22 Graduate level account of hardware verification and algebraic specification   *Formal Specification Techniques for Engineering Modular C Programs* Tan Yang Meng,2012-12-06 Software is difficult to develop maintain and reuse Two factors that contribute to this difficulty are the lack of modular design and good program documentation The first makes software changes more difficult to implement The second makes programs more difficult to understand and to maintain Formal Specification Techniques for Engineering Modular C Programs describes a novel approach to promoting program modularity The book presents a formal specification language that promotes software modularity through the use of abstract data types even though the underlying programming language may not have such support This language is structured to allow useful information to be extracted from a specification which is then used to perform consistency checks between the specification and its implementation Formal Specification Techniques for Engineering Modular C Programs also describes a specification driven software re engineering process model for improving existing programs The aim of this process is to make existing programs easier to maintain and reuse while keeping their essential functionalities unchanged Audience Suitable as a secondary text for graduate level courses in software engineering and as a reference for researchers and practitioners in industry   Formal Verification of Hardware Design Michael Yoeli,1990   *Computer Hardware Description Languages and their Applications* D. Borrione,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   Towards the Formal Specification of the Requirements and Design of a Processor Interface Unit David A. Fura,1993   **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 develop ment The harsher constraints on hardware designers mean both that there is a greater need for good abstractions and rigorous assurances of the trustworthyness 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 UNilY a formalism that was developed for reasoning about parallel programs Aagaard and Leeser use standard mathematical tech niques 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 program ming real time systems can be used to specify synchronous circuits   *Toward a Formal Verification of a Floating-point Coprocessor and Its Composition with a Central Processing Unit* Jing Pan,1993   Proof and Computation Helmut Schwichtenberg,2012-12-06 Logical concepts and methods are of growing importance in many areas of computer science The proofs as programs paradigm and the wide acceptance of Prolog show this clearly The logical notion of a formal proof in various constructive systems can be viewed as a very explicit way to describe a computation procedure Also conversely the development of logical systems has been influenced by accumulating knowledge on rewriting and unification techniques This volume contains a series of lectures by leading researchers giving a presentation of new ideas on the impact of the concept of a formal proof on computation theory The subjects covered are specification and abstract data types proving techniques constructive methods linear logic and concurrency and logic   *Formal Methods in Computer-Aided Design* Warren A. Jr. Hunt,Steven D. Johnson,2007-11-29 The biannual Formal Methods in Computer Aided Design conference FMCAD 2000 is the third in a series of conferences under that title devoted to the use of discrete mathematical methods for the analysis of computer hardware and so ware The work reported in this book describes the use of modeling languages and their associated automated analysis tools to specify and verify computing systems Functional veric ation has become one of the

principal costs in a modern computer design e ort In addition verica tion of circuit models timing power etc requires even more eo rt FMCAD provides a venue for academic and dustrial researchers and practitioners to share their ideas and experiences of using discrete mathematical modeling and veric ation It is noted with interest by the conference chairmen how this area has grown from just a few people 15 years ago to a vibrant area of research development and deployment It is clear that these methods are helping reduce the cost of designing computing systems As an example of this potential cost reduction we have invited David Russino of Advanced Micro Devices Inc to describe his veric ation of oating point gorithms being used in AMD microprocessors The program includes 30 regular presentations selected from 63 submitted papers

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

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