

# **A Structured VHDL Design Method**

Jiri Gaisler

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# A Structured Vhdl Design Method Gaisler

**Sio-iong Ao, Alan Hoi-shou Chan, Hideki  
Katagiri, Li Xu**

## **A Structured Vhdl Design Method Gaisler:**

**Languages, Design Methods, and Tools for Electronic System Design** Marie-Minerve Louërat, Torsten Maehne, 2014-08-21 This book brings together a selection of the best papers from the sixteenth edition of the Forum on Specification and Design Languages Conference FDL which was held in September 2013 in Paris France FDL is a well established international forum devoted to dissemination of research results practical experiences and new ideas in the application of specification design and verification languages to the design modeling and verification of integrated circuits complex hardware software embedded systems and mixed technology systems *Engineering Transactions On Engineering Sciences: Special Issue For The International Association Of Engineers Conferences 2015* Sio-iong Ao, Alan Hoi-shou Chan, Hideki Katagiri, Li Xu, 2016-08-10 Two large international conferences on Advances in Engineering Sciences were held in Hong Kong March 18 20 2015 under the International MultiConference of Engineers and Computer Scientists IMECS 2015 and in London UK 1 3 July 2015 under the World Congress on Engineering WCE 2015 respectively This volume contains 35 revised and extended research articles written by prominent researchers participating in the conferences Topics covered include engineering mathematics computer science electrical engineering manufacturing engineering industrial engineering and industrial applications The book offers state of the art advances in engineering sciences and also serves as an excellent reference work for researchers and graduate students working with on engineering sciences Electrical & Electronics Abstracts, 1997 *Structured Logic Design with VHDL* James R. Armstrong, F. Gail Gray, 1993 *Hardware Logic Design Methodology for Structured VHDL Model Development* Ram Gummadi, 1995 Synthesizable VHDL Design for FPGAs Eduardo Augusto Bezerra, Djones Vinicius Lettnin, 2013-10-21 The methodology described in this book is the result of many years of research experience in the field of synthesizable VHDL design targeting FPGA based platforms VHDL was first conceived as a documentation language for ASIC designs Afterwards the language was used for the behavioral simulation of ASICs and also as a design input for synthesis tools VHDL is a rich language but just a small subset of it can be used to write synthesizable code from which a physical circuit can be obtained Usually VHDL books describe both synthesis and simulation aspects of the language but in this book the reader is conducted just through the features acceptable by synthesis tools The book introduces the subjects in a gradual and concise way providing just enough information for the reader to develop their synthesizable digital systems in VHDL The examples in the book were planned targeting an FPGA platform widely used around the world **Behavioral Synthesis and Component Reuse with VHDL** Ahmed Amine Jerraya, 1997 Improvement in the quality of integrated circuit designs and a designer's productivity can be achieved by a combination of two factors Using more structured design methodologies for extensive reuse of existing components and subsystems It seems that 70% of new designs correspond to existing components that cannot be reused because of a lack of methodologies and tools Providing higher level design tools allowing to start from a higher level of abstraction After the success and the widespread

acceptance of logic and RTL synthesis the next step is behavioral synthesis commonly called architectural or high level synthesis Behavioral Synthesis and Component Reuse with VHDL provides methods and techniques for VHDL based behavioral synthesis and component reuse The goal is to develop VHDL modeling strategies for emerging behavioral synthesis tools Special attention is given to structured and modular design methods allowing hierarchical behavioral specification and design reuse The goal of this book is not to discuss behavioral synthesis in general or to discuss a specific tool but to describe the specific issues related to behavioral synthesis of VHDL description This book targets designers who have to use behavioral synthesis tools or who wish to discover the real possibilities of this emerging technology The book will also be of interest to teachers and students interested to learn or to teach VHDL based behavioral synthesis

**VHDL Coding and Logic Synthesis with Synopsys** Weng Fook Lee,2000-08-22 This book provides the most up to date coverage using the Synopsys program in the design of integrated circuits The incorporation of synthesis tools is the most popular new method of designing integrated circuits for higher speeds covering smaller surface areas Synopsys is the dominant computer aided circuit design program in the world All of the major circuit manufacturers and ASIC design firms use Synopsys In addition Synopsys is used in teaching and laboratories at over 600 universities First practical guide to using synthesis with Synopsys Synopsys is the 1 design program for IC design

**Hardware Design and Simulation in VAL/VHDL** Larry M. Augustin,David C. Luckham,Benoit A. Gennart,Youm Huh,A. Stanculescu,2012-10-08 The VHSIC Hardware Description Language VHDL provides a standard machine processable notation for describing hardware VHDL is the result of a collaborative effort between IBM Intermetrics and Texas Instruments sponsored by the Very High Speed Integrated Circuits VHSIC program office of the Department of Defense beginning in 1981 Today it is an IEEE standard 1076 1987 and several simulators and other automated support tools for it are available commercially By providing a standard notation for describing hardware especially in the early stages of the hardware design process VHDL is expected to reduce both the time lag and the cost involved in building new systems and upgrading existing ones VHDL is the result of an evolutionary approach to language development starting with high level hardware description languages existing in 1981 It has a decidedly programming language flavor resulting both from the orientation of hardware languages of that time and from a major requirement that VHDL use Ada constructs wherever appropriate During the 1980 s there has been an increasing current of research into high level specification languages for systems particularly in the software area and new methods of utilizing specifications in systems development This activity is worldwide and includes for example object oriented design various rigorous development methods mathematical verification and synthesis from high level specifications VAL VHDL Annotation Language is a simple further step in the evolution of hardware description languages in the direction of applying new methods that have developed since VHDL was designed

**A Designer's Guide to VHDL Synthesis** Douglas E. Ott,Thomas J. Wilderotter,2013-12-19 A Designer's Guide to VHDL Synthesis is intended for both design engineers who want

to use VHDL based logic synthesis ASICs and for managers who need to gain a practical understanding of the issues involved in using this technology The emphasis is placed more on practical applications of VHDL and synthesis based on actual experiences rather than on a more theoretical approach to the language VHDL and logic synthesis tools provide very powerful capabilities for ASIC design but are also very complex and represent a radical departure from traditional design methods This situation has made it difficult to get started in using this technology for both designers and management since a major learning effort and culture change is required A Designer s Guide to VHDL Synthesis has been written to help design engineers and other professionals successfully make the transition to a design methodology based on VHDL and log synthesis instead of the more traditional schematic based approach While there are a number of texts on the VHDL language and its use in simulation little has been written from a designer s viewpoint on how to use VHDL and logic synthesis to design real ASIC systems The material in this book is based on experience gained in successfully using these techniques for ASIC design and relies heavily on realistic examples to demonstrate the principles involved VHDL: Programming by Example Douglas L. Perry,2002-06-02 Teaches VHDL by example Includes tools for simulation and synthesis CD ROM containing Code Design examples and a working demo of ModelSIM The Designer's Guide to VHDL Peter J. Ashenden,2010-10-07 VHDL the IEEE standard hardware description language for describing digital electronic systems has recently been revised The Designer s Guide to VHDL has become a standard in the industry for learning the features of VHDL and using it to verify hardware designs This third edition is the first comprehensive book on the market to address the new features of VHDL 2008 First comprehensive book on VHDL to incorporate all new features of VHDL 2008 the latest release of the VHDL standard Helps readers get up to speed quickly with new features of the new standard Presents a structured guide to the modeling facilities offered by VHDL Shows how VHDL functions to help design digital systems Includes extensive case studies and source code used to develop testbenches and case study examples Helps readers gain maximum facility with VHDL for design of digital systems **VHDL Coding Styles and Methodologies** Ben Cohen,2007-05-08 VHDL Coding Styles and Methodologies Edition is a follow up book to the first edition of same book and to VHDL Answers to Frequently Asked Questions first and second editions This book was originally written as a teaching tool for a VHDL training course The author began writing the book because he could not find a practical and easy to read book that gave in depth coverage of both the language and coding methodologies This edition provides practical information on reusable software methodologies for the design of bus functional models for testbenches It also provides guidelines in the use of VHDL for synthesis All VHDL code described in the book is on a companion CD The CD also includes the GNU toolsuite with EMACS language sensitive editor with VHDL Verilog and other language templates and TShell tools that emulate a Unix shell Model Technology graciously included a timed evaluation version of ModelSim a recognized industry standard VHDL Verilog compiler and simulator that supports easy viewing of the models under analysis along with many debug features In addition Synplicity included a timed version of

Synplify a very efficient user friendly and easy to use FPGA synthesis tool Synplify provides a user both the RTL and gate level views of the synthesized model and a performance report of the design Optimization mechanisms are provided in the tool

**VHDL Designer's Reference** Jean-Michel Bergé, Alain Fonkoua, Serge Maginot, Jacques Rouillard, 1992-05-31 too vast too complex too grand for description John Wesley Powell 1870 discovering the Grand Canyon VHDL is a big world A beginner can be easily disappointed by the generality of this language This generality is explained by the large number of domains covered from specifications to logical simulation or synthesis To the very beginner VHDL appears as a kit He is quickly aware that his problem may be solved with VHDL but does not know how He does not even know how to start In this state of mind all the constraints that can be set to his modeling job by using a subset of the language or a given design methodology may be seen as a life preserver The success of the introduction of VHDL in a company depends on solutions to many questions that should be answered months before the first line of code is written Why choose VHDL Which VHDL tools should be chosen Which modeling methodology should be adopted How should the VHDL environment be customized What are the tricks Where are the traps What are the differences between VHDL and other competing HDLs Answers to these questions are organized according to different concerns buying the tools organizing the environment and designing Decisions taken in each of these areas may have many consequences on the way to the acceptance and efficient use of VHDL in a company

**Hardware Design and Simulation in VAL/VHDL** Larry M. Augustin, 1991 The VHSIC Hardware Description Language VHDL provides a standard machine processable notation for describing hardware VHDL is the result of a collaborative effort between IBM Intermetrics and Texas Instruments sponsored by the Very High Speed Integrated Circuits VHSIC program office of the Department of Defense beginning in 1981 Today it is an IEEE standard 1076 1987 and several simulators and other automated support tools for it are available commercially By providing a standard notation for describing hardware especially in the early stages of the hardware design process VHDL is expected to reduce both the time lag and the cost involved in building new systems and upgrading existing ones VHDL is the result of an evolutionary approach to language development starting with high level hardware description languages existing in 1981 It has a decidedly programming language flavor resulting both from the orientation of hardware languages of that time and from a major requirement that VHDL use Ada constructs wherever appropriate During the 1980s there has been an increasing current of research into high level specification languages for systems particularly in the software area and new methods of utilizing specifications in systems development This activity is worldwide and includes for example object oriented design various rigorous development methods mathematical verification and synthesis from high level specifications VAL VHDL Annotation Language is a simple further step in the evolution of hardware description languages in the direction of applying new methods that have developed since VHDL was designed

Fundamentals of Digital Logic with VHDL Design Stephen D. Brown, Zvonko G. Vranesic, 2005 Fundamentals of Digital Logic With VHDL Design teaches the basic design techniques for

logic circuits It emphasizes the synthesis of circuits and explains how circuits are implemented in real chips Fundamental concepts are illustrated by using small examples which are easy to understand Then a modular approach is used to show how larger circuits are designed VHDL is used to demonstrate how the basic building blocks and larger systems are defined in a hardware description language producing designs that can be implemented with modern CAD tools The book emphasizes the concepts that should be covered in an introductory course on logic design focusing on Logic functions gates and rules of Boolean algebra Circuit synthesis and optimization techniques Number representation and arithmetic circuits Combinational circuit building blocks such as multiplexers decoders encoders and code converters Sequential circuit building blocks such as flip flops registers and counters Design of synchronous sequential circuits Use of the basic building blocks in designing larger systems It also includes chapters that deal with important but more advanced topics Design of asynchronous sequential circuits Testing of logic circuits For students who have had no exposure to basic electronics but are interested in learning a few key concepts there is a chapter that presents the most basic aspects of electronic implementation of digital circuits Major changes in the second edition of the book include new examples to clarify the presentation of fundamental concepts over 50 new examples of solved problems provided at the end of chapters NAND and NOR gates now introduced in Chapter 2 more complete discussion of techniques for minimization of logic functions in Chapter 4 including the tabular method a new chapter explaining the CAD flow for synthesis of logic circuits Altera s Quartus II CAD software provided on a CD ROM three appendices that give tutorials on the use of Quartus II software

**Fundamentals of Digital Logic with VHDL Design with CD-ROM** Stephen Brown,Zvonko Vranesic,2008-04-14 Fundamentals of Digital Logic with VHDL Design teaches the basic design techniques for logic circuits The text provides a clear and easily understandable discussion of logic circuit design without the use of unnecessary formalism It emphasizes the synthesis of circuits and explains how circuits are implemented in real chips Fundamental concepts are illustrated by using small examples which are easy to understand Then a modular approach is used to show how larger circuits are designed VHDL is a complex language so it is introduced gradually in the book Each VHDL feature is presented as it becomes pertinent for the circuits being discussed While it includes a discussion of VHDL the book provides thorough coverage of the fundamental concepts of logic circuit design independent of the use of VHDL and CAD tools A CD ROM containing all of the VHDL design examples used in the book as well Altera s Quartus II CAD software is included free with every text

*RTL Hardware Design Using VHDL* Pong P. Chu,2006-04-20 The skills and guidance needed to master RTL hardware design This book teaches readers how to systematically design efficient portable and scalable Register Transfer Level RTL digital circuits using the VHDL hardware description language and synthesis software Focusing on the module level design which is composed of functional units routing circuit and storage the book illustrates the relationship between the VHDL constructs and the underlying hardware components and shows how to develop codes that faithfully reflect the module level design and can be synthesized into

efficient gate level implementation Several unique features distinguish the book Coding style that shows a clear relationship between VHDL constructs and hardware components Conceptual diagrams that illustrate the realization of VHDL codes Emphasis on the code reuse Practical examples that demonstrate and reinforce design concepts procedures and techniques Two chapters on realizing sequential algorithms in hardware Two chapters on scalable and parameterized designs and coding One chapter covering the synchronization and interface between multiple clock domains Although the focus of the book is RTL synthesis it also examines the synthesis task from the perspective of the overall development process Readers learn good design practices and guidelines to ensure that an RTL design can accommodate future simulation verification and testing needs and can be easily incorporated into a larger system or reused Discussion is independent of technology and can be applied to both ASIC and FPGA devices With a balanced presentation of fundamentals and practical examples this is an excellent textbook for upper level undergraduate or graduate courses in advanced digital logic Engineers who need to make effective use of today s synthesis software and FPGA devices should also refer to this book

Digital Design (VHDL) Peter J. Ashenden, 2007-10-24 Digital Design An Embedded Systems Approach Using VHDL provides a foundation in digital design for students in computer engineering electrical engineering and computer science courses It takes an up to date and modern approach of presenting digital logic design as an activity in a larger systems design context Rather than focus on aspects of digital design that have little relevance in a realistic design context this book concentrates on modern and evolving knowledge and design skills Hardware description language HDL based design and verification is emphasized VHDL examples are used extensively throughout By treating digital logic as part of embedded systems design this book provides an understanding of the hardware needed in the analysis and design of systems comprising both hardware and software components Includes a Web site with links to vendor tools labs and tutorials Presents digital logic design as an activity in a larger systems design context Features extensive use of VHDL examples to demonstrate HDL hardware description language usage at the abstract behavioural level and register transfer level as well as for low level verification and verification environments Includes worked examples throughout to enhance the reader s understanding and retention of the material Companion Web site includes links to tools for FPGA design from Synplicity Mentor Graphics and Xilinx VHDL source code for all the examples in the book lecture slides laboratory projects and solutions to exercises

Effective Coding with VHDL Ricardo Jasinski, 2016-05-27 A guide to applying software design principles and coding practices to VHDL to improve the readability maintainability and quality of VHDL code This book addresses an often neglected aspect of the creation of VHDL designs A VHDL description is also source code and VHDL designers can use the best practices of software development to write high quality code and to organize it in a design This book presents this unique set of skills teaching VHDL designers of all experience levels how to apply the best design principles and coding practices from the software world to the world of hardware The concepts introduced here will help readers write code that is easier to understand and more likely to be

correct with improved readability maintainability and overall quality After a brief review of VHDL the book presents fundamental design principles for writing code discussing such topics as design quality architecture modularity abstraction and hierarchy Building on these concepts the book then introduces and provides recommendations for each basic element of VHDL code including statements design units types data objects and subprograms The book covers naming data objects and functions commenting the source code and visually presenting the code on the screen All recommendations are supported by detailed rationales Finally the book explores two uses of VHDL synthesis and testbenches It examines the key characteristics of code intended for synthesis distinguishing it from code meant for simulation and then demonstrates the design and implementation of testbenches with a series of examples that verify different kinds of models including combinational sequential and FSM code Examples from the book are also available on a companion website enabling the reader to experiment with the complete source code

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### **A Structured Vhdl Design Method Gaisler Introduction**

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