

```

53 signal seqcount :      unsigned(10 downto 0) := "000000000000";
54 signal Eng_Sck_en :   STD_LOGIC := '0';
55 signal clkdiv2 :      STD_LOGIC := '0';
56 signal Eng_State :    STD_LOGIC_VECTOR(2 downto 0) := "000";
57     CONSTANT IDLE :          std_logic_vector(2 downto 0) := "000";
58     CONSTANT OUTPUT_SRAM_HEADER : std_logic_vector(2 downto 0) := "001";
59     CONSTANT SET_LRCK_HIGH :      std_logic_vector(2 downto 0) := "010";
60     CONSTANT CLEAR_LRCK_HIGH :    std_logic_vector(2 downto 0) := "011";
61     CONSTANT GET_CHANNEL_DATA :   std_logic_vector(2 downto 0) := "100";
62     CONSTANT WAIT_FOR_SAMPLE :    std_logic_vector(2 downto 0) := "101";
63     CONSTANT CHECK_SAMPLE_COUNT : std_logic_vector(2 downto 0) := "110";
64     CONSTANT CHECK_FOR_IDLE :     std_logic_vector(2 downto 0) := "111";
65 signal CycleCnt :      unsigned(10 downto 0) := "111111111111";
66 -----
67 -- SPI Latch signals
68 -----
69 signal SPIbitCnt :      unsigned(2 downto 0) := "000";
70 signal InputReg :       std_logic_vector(7 downto 0) := "00000000";
71 signal NewInput :       STD_LOGIC := '0';
72
73 signal Run :            STD_LOGIC := '0';
74
75 CONSTANT DE_SELECT :    std_logic_vector(1 downto 0) := "11";  -- No select
76 CONSTANT ADC_CS_LOW :   std_logic_vector(1 downto 0) := "00";  -- ADC_CS low
77 CONSTANT nvSRAM1_CS_LOW : std_logic_vector(1 downto 0) := "01";  -- nvSRAM1_CS low
78 CONSTANT CPLD_SELECT :  std_logic_vector(1 downto 0) := "10";  -- CPLD selected

```

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BM King



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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 **Rapid Prototyping of Digital Systems**

James O. Hamblen,Tyson S. Hall,Michael D. Furman,2006-01-16 Rapid Prototyping of Digital Systems Quartus II Edition provides an exciting and challenging laboratory component for undergraduate digital logic and computer design courses using FPGAs and CAD tools for simulation and hardware implementation The more advanced topics and exercises also make this text useful for upper level courses in digital logic programmable logic and embedded systems This new version of the widely used Rapid Prototyping of Digital Systems Second Edition now uses Altera s new Quartus II CAD tool and includes laboratory projects for Altera s UP 2 and the new UP 3 FPGA board Rapid Prototyping of Digital Systems Quartus II Edition includes four tutorials on the Altera Quartus II and NIOS II tool environment an overview of programmable logic and IP cores with several easy to use input and output functions These features were developed to help students get started quickly Early design examples use schematic capture and IP cores developed for the Altera UP FPGA boards VHDL is used for more complex designs after a short introduction to VHDL based synthesis New to this edition is an overview of System on a Programmable Chip SOPC technology and SOPC design examples for the UP3 using Altera s new NIOS II Processor hardware and C software development tools Circuit Design and Simulation with VHDL, second edition Volnei A. Pedroni,2010-09-17 A presentation of circuit synthesis and circuit simulation using VHDL including VHDL 2008 with an emphasis on design examples and laboratory exercises This text offers a comprehensive treatment of VHDL and its applications to the design and simulation of real industry standard circuits It focuses on the use of VHDL rather than solely on the language showing why and how certain types of circuits are inferred from the language constructs and how any of the four simulation categories can be implemented It makes a rigorous distinction between VHDL for synthesis and VHDL for simulation The VHDL codes in all design examples are complete and circuit diagrams physical synthesis in FPGAs simulation results and explanatory comments are included with the designs The text reviews fundamental concepts of digital electronics and design and includes a series of appendixes that offer tutorials on important design tools including ISE Quartus II and

ModelSim as well as descriptions of programmable logic devices in which the designs are implemented the DE2 development board standard VHDL packages and other features All four VHDL editions 1987 1993 2002 and 2008 are covered This expanded second edition is the first textbook on VHDL to include a detailed analysis of circuit simulation with VHDL testbenches in all four categories nonautomated fully automated functional and timing simulations accompanied by complete practical examples Chapters 1 9 have been updated with new design examples and new details on such topics as data types and code statements Chapter 10 is entirely new and deals exclusively with simulation Chapters 11 17 are also entirely new presenting extended and advanced designs with theoretical and practical coverage of serial data communications circuits video circuits and other topics There are many more illustrations and the exercises have been updated and their number more than doubled

FPGA-Based Embedded System Developer's Guide A. Arockia Basil Raj, 2018-04-09 The book covers various aspects of VHDL programming and FPGA interfacing with examples and sample codes giving an overview of VLSI technology digital circuits design with VHDL programming components functions and procedures and arithmetic designs followed by coverage of the core of external I/O programming algorithmic state machine based system design and real world interfacing examples Focus on real world applications and peripherals interfacing for different applications like data acquisition control communication display computing instrumentation digital signal processing and top module design Aims to be a quick reference guide to design digital architecture in the FPGA and develop system with RTC data transmission protocols

Digital Electronics and Design with VHDL Volnei A. Pedroni, 2008-01-25 Digital Electronics and Design with VHDL offers a friendly presentation of the fundamental principles and practices of modern digital design Unlike any other book in this field transistor level implementations are also included which allow the readers to gain a solid understanding of a circuit's real potential and limitations and to develop a realistic perspective on the practical design of actual integrated circuits Coverage includes the largest selection available of digital circuits in all categories combinational sequential logical or arithmetic and detailed digital design techniques with a thorough discussion on state machine modeling for the analysis and design of complex sequential systems Key technologies used in modern circuits are also described including Bipolar MOS ROM RAM and CPLD FPGA chips as well as codes and techniques used in data storage and transmission Designs are illustrated by means of complete realistic applications using VHDL where the complete code comments and simulation results are included This text is ideal for courses in Digital Design Digital Logic Digital Electronics VLSI and VHDL and industry practitioners in digital electronics Comprehensive coverage of fundamental digital concepts and principles as well as complete realistic industry standard designs Many circuits shown with internal details at the transistor level as in real integrated circuits Actual technologies used in state of the art digital circuits presented in conjunction with fundamental concepts and principles Six chapters dedicated to VHDL based techniques with all VHDL based designs synthesized onto CPLD FPGA chips

Circuit Design with VHDL, third edition Volnei A. Pedroni, 2020-04-14 A completely updated and

expanded comprehensive treatment of VHDL and its applications to the design and simulation of real industry standard circuits This comprehensive treatment of VHDL and its applications to the design and simulation of real industry standard circuits has been completely updated and expanded for the third edition New features include all VHDL 2008 constructs an extensive review of digital circuits RTL analysis and an unequalled collection of VHDL examples and exercises The book focuses on the use of VHDL rather than solely on the language with an emphasis on design examples and laboratory exercises The third edition begins with a detailed review of digital circuits combinatorial sequential state machines and FPGAs thus providing a self contained single reference for the teaching of digital circuit design with VHDL In its coverage of VHDL 2008 it makes a clear distinction between VHDL for synthesis and VHDL for simulation The text offers complete VHDL codes in examples as well as simulation results and comments The significantly expanded examples and exercises include many not previously published with multiple physical demonstrations meant to inspire and motivate students The book is suitable for undergraduate and graduate students in VHDL and digital circuit design and can be used as a professional reference for VHDL practitioners It can also serve as a text for digital VLSI in house or academic courses

Finite State Machines in Hardware Volnei A. Pedroni, 2025-05-27 A comprehensive guide to the theory and design of hardware implemented finite state machines with design examples developed in both VHDL and SystemVerilog languages Modern complex digital systems invariably include hardware implemented finite state machines The correct design of such parts is crucial for attaining proper system performance This book offers detailed comprehensive coverage of the theory and design for any category of hardware implemented finite state machines It describes crucial design problems that lead to incorrect or far from optimal implementation and provides examples of finite state machines developed in both VHDL and SystemVerilog the successor of Verilog hardware description languages Important features include extensive review of design practices for sequential digital circuits a new division of all state machines into three hardware based categories encompassing all possible situations with numerous practical examples provided in all three categories the presentation of complete designs with detailed VHDL and SystemVerilog codes comments and simulation results all tested in FPGA devices and exercise examples all of which can be synthesized simulated and physically implemented in FPGA boards Additional material is available on the book s Website Designing a state machine in hardware is more complex than designing it in software Although interest in hardware for finite state machines has grown dramatically in recent years there is no comprehensive treatment of the subject This book offers the most detailed coverage of finite state machines available It will be essential for industrial designers of digital systems and for students of electrical engineering and computer science

Digital Design Using VHDL William J. Dally, R. Curtis Harting, Tor M. Aamodt, 2016 Provides students with a system level perspective and the tools they need to understand analyze and design complete digital systems using VHDL It goes beyond the design of simple combinational and sequential modules to show how such modules are used to build complete systems reflecting digital

design in the real world Unleash the System On Chip using FPGAs and Handel C Rajanish K. Kamat, Santosh A. Shinde, Vinod G Shelake, 2009-03-05 With the rapid advances in technology the conventional academic and research departments of Electronics engineering Electrical Engineering Computer Science Instrumentation Engineering over the globe are forced to come together and update their curriculum with few common interdisciplinary courses in order to come out with the engineers and researchers with multi dimensional capabilities The growing perception of the Hardware becoming Soft and Software becoming Hard with the emergence of the FPGAs has made its impact on both the hardware and software professionals to change their mindset of working in narrow domains An interdisciplinary field where Hardware meets the Software for undertaking seemingly unfeasible tasks is System on Chip SoC which has become the basic platform form of modern electronic appliances If it wasn't for SoCs we wouldn't be driving our car with foresight of the traffic congestion before hand using GPS Without the omnipresence of the SoCs in our every walks of life the society is wouldn't have evidenced the rich benefits of the convergence of the technologies such as audio video mobile IPTV just to name a few The growing expectations of the consumers have placed the field of SoC design at the heart of at variance trends On one hand there are challenges owing to design complexities with the emergence of the new processors RTOS software protocol stacks buses while the brutal forces of deep submicron effects such as crosstalk electromigration timing closures are challenging the design metrics

Embedded Microprocessor System Design using FPGAs Uwe Meyer-Baese, 2025-05-29 This textbook for courses in Embedded Systems introduces students to necessary concepts through a hands on approach It gives a great introduction to FPGA based microprocessor system design using state of the art boards tools and microprocessors from Altera Intel and Xilinx HDL based designs soft core parameterized cores Nios II and MicroBlaze and ARM Cortex A9 design are discussed compared and explored using many hand on designs projects Custom IP for HDMI coder Floating point operations and FFT bit swap are developed implemented tested and speed up is measured New additions in the second edition include bottom up and top down FPGA based Linux OS system designs for Altera Intel and Xilinx boards and application development running on the OS using modern popular programming languages Python Java and JavaScript HTML CSSs Downloadable files include all design examples such as basic processor synthesizable code for Xilinx and Altera tools for PicoBlaze MicroBlaze Nios II and ARMv7 architectures in VHDL and Verilog code as well as the custom IP projects For the three new OS enabled programming languages a substantial number of examples ranging from basic math and networking to image processing and video animations are provided Each Chapter has a substantial number of short quiz questions exercises and challenging projects

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