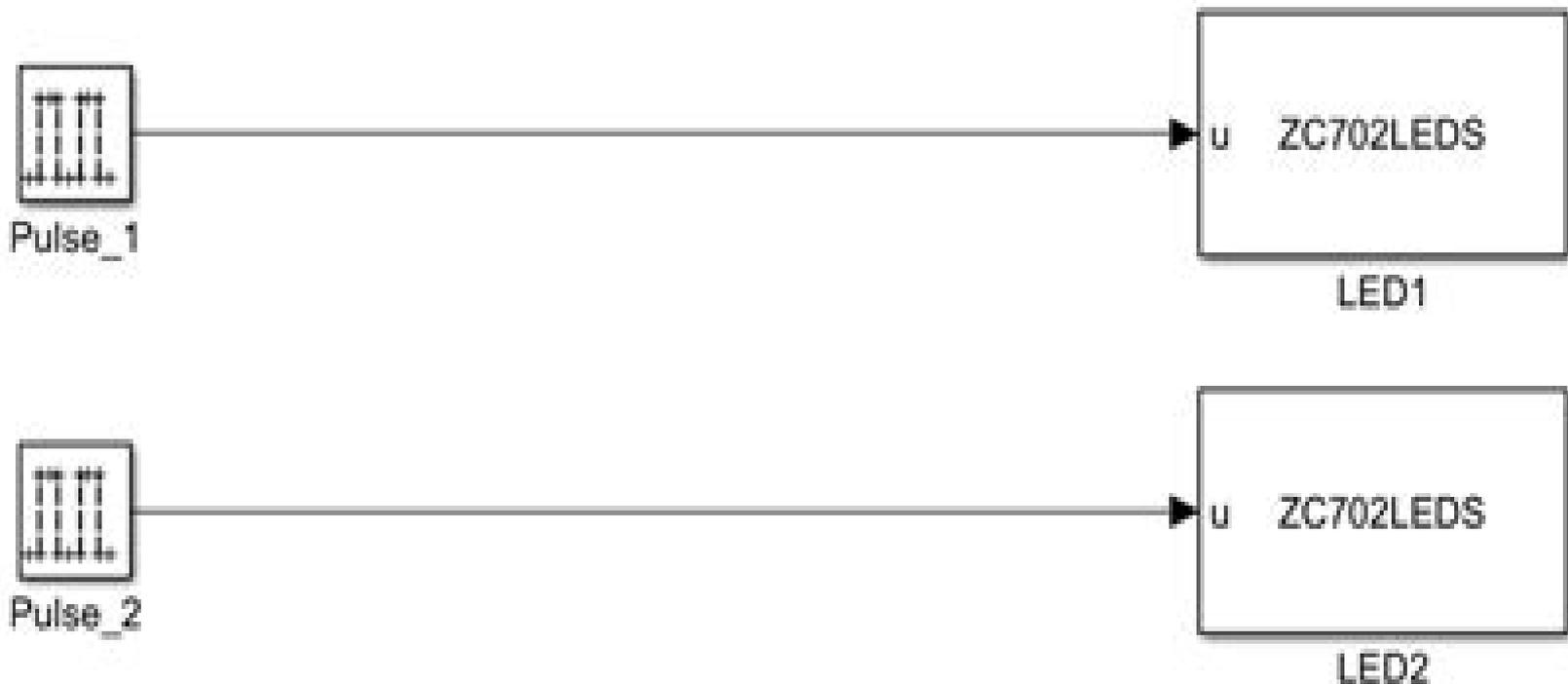


Getting started with VxWorks 7 on Zynq Hardware



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FPGA-BASED Hardware Accelerators Iouliia Skliarova,Valery Sklyarov,2019-05-30 This book suggests and describes a number of fast parallel circuits for data vector processing using FPGA based hardware accelerators Three primary areas are covered searching sorting and counting in combinational and iterative networks These include the application of traditional structures that rely on comparators swappers as well as alternative networks with a variety of core elements such as adders logical gates and look up tables The iterative technique discussed in the book enables the sequential reuse of relatively large combinational blocks that execute many parallel operations with small propagation delays For each type of network discussed the main focus is on the step by step development of the architectures proposed from initial concepts to synthesizable hardware description language specifications Each type of network is taken through several stages including modeling the desired functionality in software the retrieval and automatic conversion of key functions leading to specifications for optimized hardware modules The resulting specifications are then synthesized implemented and tested in FPGAs using commercial design environments and prototyping boards The methods proposed can be used in a range of data processing applications including traditional sorting the extraction of maximum and minimum subsets from large data sets communication time data processing finding frequently occurring items in a set and Hamming weight distance counters comparators The book is intended to be a valuable support material for university and industrial engineering courses that involve FPGA based circuit and system design

Guide to Computer Processor Architecture Bernard

Goossens,2023-01-25 The book presents a succession of RISC V processor implementations in increasing difficulty non pipelined pipelined deeply pipelined multithreaded multicore Each implementation is shown as an HLS High Level Synthesis code in C which can really be synthesized and tested on an FPGA based development board such a board can be freely obtained from the Xilinx University Program targeting the university professors The book can be useful for three reasons First it is a novel way to introduce computer architecture The codes given can serve as labs for a processor architecture course Second the book content is based on the RISC V Instruction Set Architecture which is an open source machine language promised to become the machine language to be taught replacing DLX and MIPS Third all the designs are implemented through the High Level Synthesis a tool which is able to translate a C program into an IP Intellectual Property Hence the book can serve to engineers willing to implement processors on FPGA and to researchers willing to develop RISC V based hardware simulators

Digital System Design with FPGA: Implementation Using Verilog and VHDL Cem

Unsalan,Bora Tar,2017-07-14 Master FPGA digital system design and implementation with Verilog and VHDL This practical guide explores the development and deployment of FPGA based digital systems using the two most popular hardware description languages Verilog and VHDL Written by a pair of digital circuit design experts the book offers a solid grounding in FPGA principles practices and applications and provides an overview of more complex topics Important concepts are

demonstrated through real world examples ready to run code and inexpensive start to finish projects for both the Basys and Arty boards Digital System Design with FPGA Implementation Using Verilog and VHDL covers Field programmable gate array fundamentals Basys and Arty FPGA boards The Vivado design suite Verilog and VHDL Data types and operators Combinational circuits and circuit blocks Data storage elements and sequential circuits Soft core microcontroller and digital interfacing Advanced FPGA applications The future of FPGA

Synthesis and Optimization of FPGA-Based Systems Valery Sklyarov, Iouliia Skliarova, Alexander Barkalov, Larysa Titarenko, 2014-03-14 The book is composed of two parts The first part introduces the concepts of the design of digital systems using contemporary field programmable gate arrays FPGAs Various design techniques are discussed and illustrated by examples The operation and effectiveness of these techniques is demonstrated through experiments that use relatively cheap prototyping boards that are widely available The book begins with easily understandable introductory sections continues with commonly used digital circuits and then gradually extends to more advanced topics The advanced topics include novel techniques where parallelism is applied extensively These techniques involve not only core reconfigurable logical elements but also use embedded blocks such as memories and digital signal processing slices and interactions with general purpose and application specific computing systems Fully synthesizable specifications are provided in a hardware description language VHDL and are ready to be tested and incorporated in engineering designs A number of practical applications are discussed from areas such as data processing and vector based computations e g Hamming weight counters comparators The second part of the book covers the more theoretical aspects of finite state machine synthesis with the main objective of reducing basic FPGA resources minimizing delays and achieving greater optimization of circuits and systems

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

Pattern Recognition Michael Cree, Fay Huang, Junsong Yuan, Wei

Qi Yan,2020-03-06 This volume constitutes the refereed proceedings presented during the ACPR 2019 Workshops held in Auckland New Zealand in November 2019 The 17 full papers and 6 short papers were carefully reviewed and selected out of numerous submissions The papers are organized according to the topics of the workshops computer vision for modern vehicles advances and applications on generative deep learning models image and pattern analysis for multidisciplinary computational anatomy multi sensor for action and gesture recognition towards the automatic data processing chain for airborne and spaceborne sensors

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