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The Cyclone® V SoC Development Kit offers a quick and simple approach to develop custom ARM* processor-based SoC designs accompanied by Intel's low-power, low-cost Cyclone V FPGA fabric. This kit supports a wide range of functions, such as: Processor and FPGA prototyping and power measurement. Industrial networking protocols.

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Cyclone® V SoC FPGAs offers a powerful dual-core ARM* Cortex*-A9 MPCore* processor surrounded by a rich set of peripherals and a hardened memory controller. The FPGA fabric, with up to 110K LEs (logic elements), is connected to the hard processor system (HPS) through a high-speed >100 Gbps interconnect backbone.

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Intel provides several development kits that feature Cyclone® FPGAs and SoCs. These kits provide a complete design environment that includes all the hardware and software that you need to develop full FPGA designs and test them within a system environment. View all Cyclone® V development kits

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Cyclone V SoC FPGA Development Kit Board 1. Project Drawing Numbers: Raw PCB Gerber Files PCB Design Files Assembly Drawing Fab Drawing Schematic Drawing PCB Film Bill of Materials Schematic Design Files Functional Specification PCB Layout Guidelines Assembly Rework PCI Express Edge Connector Cyclone V GX SoC Bank 5,6 Cyclone V GX SoC Bank 3,4 ...

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~~Cyclone V SoC FPGA Development Kit Board~~

The Cyclone V SoC development board provides a hardware platform for developing and prototyping low-power, high-performance, and logic-intensive designs using Altera ' s Cyclone V SoC. The board provides a wide range of peripherals and memory interfaces to facilitate the development of Cyclone V SoC designs.

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Intel Cyclone ® V 28nm FPGAs provide the industry's lowest system cost and power, along with performance levels that make the device family ideal for differentiating your high-volume applications. You'll get up to 40 percent lower total power compared with the previous generation, efficient logic integration capabilities, integrated transceiver variants, and SoC FPGA variants with an ARM ...

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Overview SoCKit - the Development Kit for New SoC Device The SoCKit Development Kit presents a robust hardware design platform built around the Altera Cyclone V System-on-Chip (SoC) FPGA, which combines the latest Cortex-A9 embedded cores with industry-leading programmable logic for ultimate design flexibility.

~~Terasic - SoC Platform - Cyclone - SoCKit - the ...~~

FPGA Device • Cyclone V SoC 5CSXFC6D6F31 Device • Dual-core ARM Cortex-A9 (HPS) • 110K Programmable Logic Elements • 5,140 Kbits embedded memory • 6 Fractional PLLs • 2 Hard Memory Controllers • 3.125G Transceivers. Configuration and Debug • Quad Serial Configuration device – EPCQ256 on FPGA

~~SOCKIT by Arrow Development Tools | Programmable Logic ...~~

<http://bit.ly/1IQxpcq> Setting up Altera OpenCL Run-Time Environment on Altera Cyclone V SoC Development Kit Follow Intel FPGA to see how we ' re programmed for...

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Cyclone V SoC Development Kit: Cyclone V: 14.0.0 : Intel: AN 709: HPS SoC Boot Guide - Cyclone V SoC Development Kit : Design Example \ Outside Design Store: Cyclone V SoC Development Kit: Cyclone V: 15.0.0 : Intel: AN 717: Nios II Gen2 Hardware Development Tutorial for Cyclone V : Design Example \ Outside Design Store: Non kit specific Cyclone ...

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The Cyclone V SoC and its associated development kits have a comprehensive operating system ecosystem support as listed below: - Linux is the most common general-purpose operating system used on ARM-based SoCs. The Cyclone V SoC is no different, with comprehensive support offered by both Altera and a large user community.

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Cyclone V SoC is a new SoC tightly coupling with Dual-core ARM Cortex-A9 and FPGA fabric, enabling easy development of complex systems with advanced application processing and flexible hardware using FPGA.

~~Borax SOM | Macnica Cytech~~

The Intel SoC FPGA Embedded Development Suite Standard Edition, Version 20.1 includes functional and security updates. Users should keep their software up-to-date and follow the technical recommendations to help improve security. Additional security updates are planned and will be provided as they become available.

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Atlas-SoC (DE0-Nano-SoC) Cyclone V: 16.0.0 : Terasic Atlas-SoC (DE0-Nano-SoC) Baseline Pinout : Design Example: Atlas-SoC (DE0-Nano-SoC) Cyclone V: 16.1.0 : Terasic Atlas-SoC (DE0-Nano-SoC) Baseline Pinout : Design Example: Atlas-SoC (DE0-Nano-SoC) Cyclone V: 17.0.0 Standard: Terasic Atlas-SoC My First HPS : Design Example: Atlas-SoC (DE0-Nano ...

This book is built around the use of readymade soft processor cores for FPGA design. In particular, the book focuses on Altera FPGA boards. The book explores many different embedded systems needs and prepares its readers for hands-on design and development of such systems. Many worked-out examples and case studies have been included to enable a clear understanding of design concepts. Primarily designed as a textbook for core or lab courses on FPGA based embedded systems, this book will appeal to students and instructors alike. The book takes an autodidactic approach, which also makes it suitable for hobbyists and practitioners looking to acquaint themselves with Altera FPGA boards.

This book presents the proceedings of the International Conference SDOT which was organized at the University in Žilina, Faculty of Management Sciences and Informatics, Slovak Republic in November 19, 2015. The conference was truly international both in terms of the amount of foreign contributions and in terms of composition of steering and scientific committees. The book and the conference serves as a platform of professional exchange of knowledge and experience for the latest trends in software development and object-oriented technologies (theory and practice). This proceedings present information on the latest developments and mediate the exchange of experience between practitioners and academia.

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

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FFT bit-swap are developed, implemented, tested and speed-up is measured. 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. Each Chapter has a substantial number of short quiz questions, exercises, and challenging projects. Explains soft, parameterized, and hard core systems design tradeoffs; Demonstrates design of popular KCPSM6 8 Bit microprocessor step-by-step; Discusses the 32 Bit ARM Cortex-A9 and a basic processor is synthesized; Covers design flows for both FPGA Market leaders Nios II Altera/Intel and MicroBlaze Xilinx system; Describes Compiler-Compiler Tool development; Includes a substantial number of Homework 's and FPGA exercises and design projects in each chapter.

This book covers various aspects of security, privacy and reliability in Internet of Things (IoT) and Cyber-Physical System design, analysis and testing. In particular, various established theories and practices both from academia and industry are presented and suitably organized targeting students, engineers and researchers. Fifteen leading academicians and practitioners wrote this book, pointing to the open problems and biggest challenges on which research in the near future will be focused.

The recent rise of "smart" products has been made possible through tight co-design of hardware and software. The growing amount of software and hence processors in applications all around us allows for increased flexibility in the application functionality through its life cycle. Not so long ago a device felt outdated after you owned it for a couple of months. Today, a continuous stream of new software applications and updates make products feel truly "smart". The result is an almost magical user experience where the same product can do more today than it could do yesterday.

In this book we dive deep into a key methodology to enable concurrent hardware/software development by decoupling the dependency of the software development from hardware availability: virtual prototyping. The ability to start software development much earlier in the design cycle drives a true "shift-left" of the entire product development schedule and results in better products that are available earlier in the market.

Throughout the book, case studies illustrate how virtual prototypes are being deployed by major companies around the world. If you are interested in a quick feel for what virtual prototyping has to offer for practical deployment, we recommend picking a few case studies to read, before diving into the details of the methodology.

Of course, this book can only offer a small snapshot of virtual prototype use cases for faster software development. However, as most software bring-up, debug and test principles are similar across markets and applications, it is not hard to realize why virtual prototypes are being leveraged whenever software is an intrinsic part of the product functionality, after reading this book.

This book presents a new threat modelling approach that specifically targets the hardware supply chain, covering security risks throughout the lifecycle of an electronic system. The authors present a case study on a new type of security attack, which combines two forms of attack mechanisms from two different stages of the IC supply chain. More specifically, this attack targets the newly developed, light cipher (Ascon) and demonstrates how it can be broken easily, when its implementation is compromised with a hardware Trojan. This book also discusses emerging countermeasures, including anti-counterfeit design techniques for resources constrained devices and anomaly detection methods for embedded systems.

This book constitutes the proceedings of the workshops of the 23rd International Conference on Parallel and Distributed Computing, Euro-Par 2017, held in Santiago de Compostela, Spain in August 2017. The 59 full papers presented were carefully reviewed and selected from 119 submissions. Euro-Par is an annual, international conference in Europe, covering all aspects of parallel and distributed processing. These range

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from theory to practice, from small to the largest parallel and distributed systems and infrastructures, from fundamental computational problems to full-edged applications, from architecture, compiler, language and interface design and implementation to tools, support infrastructures, and application performance aspects.

This book presents innovative ideas, cutting-edge findings, and novel techniques, methods, and applications in a broad range of cybersecurity and cyberthreat intelligence areas. As our society becomes smarter, there is a corresponding need to be able to secure our cyberfuture. The approaches and findings described in this book are of interest to businesses and governments seeking to secure our data and underpin infrastructures, as well as to individual users.

The finite deformation elasticity is a theory that describes the capability of the elastic materials undergoing deformations. The finite element method (FEM) is constructed to solve problems based on this theory. The FEM method subdivides the whole problem domain into simpler parts and obtains the approximate results by connecting these simpler parts over subdomains. Solving these problems in real life situations require significantly high computing power, highlighting the need for high performance computational devices in order to accelerate the calculation process. Altera announced industry 's first OpenCL framework for FPGA devices. This tool combines the FPGA with the OpenCL standard to construct powerful system acceleration. In this thesis, an OpenCL solution for finite deformation elasticity is implemented on Altera manufactured Cyclone V SoC development kit. The Cyclone V SoC contains the hard processor system with integrated ARM processor and FPGA, allowing for the host program of the OpenCL application to be executed on the ARM processor and use FPGA 's parallel performance capability to run the OpenCL kernel. The OpenCL kernel is developed to concurrently calculate all the deformation gradient tensors for all elements and a comparison benchmark is conducted to compare the execution time and power consumption between FPGA and GPU setups. The results show that FPGA is 3.5 times faster than GPU and consume significantly lower power.

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