Difference between CPLD & FPGA

Sr. No.	CPLD	FPGA
1.	Complex Programmable Logic Device	Field Programmable Gate Array
2.	It is collection PLDs.	It is collection of CLBs.
2.	Gate density up to 10000 gates	1000-few hundred 1000s gates
4.	Interconnection wise it is complex so called as CPLD.	Programmable at field or site so called as FPGA.
5.	PAL like blocks used as PLDs.	CLBs used as building blocks.
6.	AND-OR arrays are there in PAL like blocks.	LUTs are there in CLBs.
7.	Configuration context is stored in ROM.	Configuration context is stored in RAM.
8.	Configuration context is Non-volatile.	Configuration context is volatile.

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Deming Chen,Jason Cong,Peichen Pan

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Proceedings ,1999 **Electrical & Electronics Abstracts** ,1997 **Designing with FPGAs and CPLDs** Jesse H. Jenkins,1994 This text covers the entire field of FPGAs and is intended to bring designers and engineers up to speed in this area It describes all products within a comparative framework that highlights the strengths and weaknesses of individual FPGAs and their application potential **FPGAs: World Class Designs** Clive Maxfield,2009-02-24 All the design and development inspiration and direction a harware engineer needs in one blockbuster book Clive Max Maxfield renowned author columnist and editor of PL DesignLine has selected the very best FPGA design material from the Newnes portfolio and has compiled it into this volume The result is a book covering the gamut of FPGA design from design fundamentals to optimized layout techniques with a strong pragmatic emphasis In addition to specific design techniques and practices this book also discusses various approaches to solving FPGA design problems and how to successfully apply theory to actual design tasks The material has been selected for its timelessness as well as for its relevance to contemporary FPGA design issues ContentsChapter 1 Alternative FPGA ArchitecturesChapter 2 Design Techniques Rules and GuidelinesChapter 3 A VHDL Primer The EssentialsChapter 4 Modeling MemoriesChapter 5 Introduction to Synchronous State Machine Design and AnalysisChapter 6 Embedded ProcessorsChapter 7 Digital Signal ProcessingChapter 8 Basics of Embedded Audio ProcessingChapter 9 Basics of Embedded Video and Image ProcessingChapter 10 Programming Streaming FPGA Applications Using Block Diagrams In SimulinkChapter 11 Ladder and functional block programmingChapter 12 Timers Hand picked content selected by Clive Max Maxfield character luminary columnist and author Proven best design practices for FPGA development verification and low power Case histories and design examples get you off and running on your current project **Designing with FPGAs and CPLDs** Bob Zeidman,2002-01-09 Choose the right programmable logic devices and development tools Understand the design verification and testing issues Plan schedules and allocate resources efficiently Choose the right programmable logic devices with this guide to the technolog *FPGAs and Parallel Architectures for Aerospace Applications* Fernanda Kastensmidt,Paolo Rech,2015-12-07 This book introduces the concepts of soft errors in FPGAs as well as the motivation for using commercial off the shelf COTS FPGAs in mission critical and remote applications such as aerospace The authors describe the effects of radiation in FPGAs present a large set of soft error mitigation techniques that can be applied in these circuits as well as methods for qualifying these circuits under radiation Coverage includes radiation effects in FPGAs fault tolerant techniques for FPGAs use of COTS FPGAs in aerospace applications experimental data of FPGAs under radiation FPGA embedded processors under radiation and fault injection in FPGAs Since dedicated parallel processing architectures such as GPUs have become more desirable in aerospace applications due to high computational power GPU analysis under radiation is also discussed *3D-CAD* U. Sendler,1993-10-01 **FPGA Architecture** Ian Kuon,2008 *Tree-based Heterogeneous FPGA Architectures* Umer

Farooq,Zied Marrakchi,Habib Mehrez,2012-05-14 This book presents a new FPGA architecture known as tree based FPGA architecture due to its hierarchical nature This type of architecture has been relatively unexplored despite their better performance and predictable routing behavior as compared to mesh based FPGA architectures In this book we explore and optimize the tree based architecture and we evaluate it by comparing it to equivalent mesh based FPGA architectures

FPGA Design Automation Deming Chen,Jason Cong,Peichen Pan,2006 FPGA Design Automation A Survey is an up to date comprehensive survey tutorial of FPGA design automation with an emphasis on the recent developments within the past 5 to 10 years The focus is on the theory and techniques that have been or most likely will be reduced to practice It covers all major steps in FPGA design flow routing and placement circuit clustering technology mapping and architecture specific optimization physical synthesis RT level and behavior level synthesis and power optimization FPGA Design Automation A Survey can be used as both a guide for beginners who are embarking on research in this relatively young yet exciting area and a useful reference for established researchers in this field **Partial Reconfiguration on FPGAs** Dirk Koch,2012-07-25 This is the first book to focus on designing run time reconfigurable systems on FPGAs in order to gain resource and power efficiency as well as to improve speed Case studies in partial reconfiguration guide readers through the FPGA jungle straight toward a working system The discussion of partial reconfiguration is comprehensive and practical with models introduced together with methods to implement efficiently the corresponding systems Coverage includes concepts for partial module integration and corresponding communication architectures floorplanning of the on FPGA resources physical implementation aspects starting from constraining primitive placement and routing all the way down to the bitstream required to configure the FPGA and verification of reconfigurable systems **Application-Specific Mesh-based Heterogeneous FPGA Architectures** Husain Parvez,Habib Mehrez,2010-11-05 This book presents a new exploration environment for mesh based heterogeneous FPGA architectures It describes state of the art techniques for reducing area requirements in FPGA architectures which also increase performance and enable reduction in power required Coverage focuses on reduction of FPGA area by introducing heterogeneous hard blocks such as multipliers adders etc in FPGAs and by designing application specific FPGAs Automatic FPGA layout generation techniques are employed to decrease non recurring engineering NRE costs and time to market of application specific heterogeneous FPGA architectures *FPGAs* Juan Jose Rodriguez Andina,Eduardo de la Torre Arnanz,Maria Dolores Valdes,2016-05-15 This book explains the how and why of field programmable gate array FPGA usage It analyzes fundamental architectures of FPGA devices providing case studies and simple design examples It also describes advanced features of the latest devices exploring new resources enabling problem solving in new application domains such as high speed sensor interfacing and control of power converters From basic circuits to state of the art implementations this text demystifies FPGAs for engineers who are not digital designers but need efficient digital solutions for their systems to be competitive **Principles and Structures of FPGAs** Hideharu Amano,2018 This

comprehensive textbook on the field programmable gate array FPGA covers its history fundamental knowledge architectures device technologies computer aided design technologies design tools examples of application and future trends Programmable logic devices represented by FPGAs have been rapidly developed in recent years and have become key electronic devices used in most IT products This book provides both complete introductions suitable for students and beginners and high level techniques useful for engineers and researchers in this field Differently developed from usual integrated circuits the FPGA has unique structures design methodologies and application techniques Allowing programming by users the device can dramatically reduce the rising cost of development in advanced semiconductor chips The FPGA is now driving the most advanced semiconductor processes and is an all in one platform combining memory CPUs and various peripheral interfaces This book introduces the FPGA from various aspects for readers of different levels Novice learners can acquire a fundamental knowledge of the FPGA including its history from Chapter 1 the first half of Chapter 2 and Chapter 4 Professionals who are already familiar with the device will gain a deeper understanding of the structures and design methodologies from Chapters 3 and 5 Chapters 6 8 also provide advanced techniques and cutting edge applications and trends useful for professionals Although the first parts are mainly suitable for students the advanced sections of the book will be valuable for professionals in acquiring an in depth understanding of the FPGA to maximize the performance of the device

A Fault Tolerant FPGA Architecture Md. Tanveer Anwar,2008 **Data Processing on FPGAs** Jens Teubner,Louis Woods,2022-05-31 Roughly a decade ago power consumption and heat dissipation concerns forced the semiconductor industry to radically change its course shifting from sequential to parallel computing Unfortunately improving performance of applications has now become much more difficult than in the good old days of frequency scaling This is also affecting databases and data processing applications in general and has led to the popularity of so called data appliances specialized data processing engines where software and hardware are sold together in a closed box Field programmable gate arrays FPGAs increasingly play an important role in such systems FPGAs are attractive because the performance gains of specialized hardware can be significant while power consumption is much less than that of commodity processors On the other hand FPGAs are way more flexible than hard wired circuits ASICs and can be integrated into complex systems in many different ways e g directly in the network for a high frequency trading application This book gives an introduction to FPGA technology targeted at a database audience In the first few chapters we explain in detail the inner workings of FPGAs Then we discuss techniques and design patterns that help mapping algorithms to FPGA hardware so that the inherent parallelism of these devices can be leveraged in an optimal way Finally the book will illustrate a number of concrete examples that exploit different advantages of FPGAs for data processing Table of Contents Preface Introduction A Primer in Hardware Design FPGAs FPGA Programming Models Data Stream Processing Accelerated DB Operators Secure Data Processing Conclusions Bibliography Authors Biographies Index **FPGA-based Implementation of Signal Processing Systems**

Roger Woods,John McAllister,Gaye Lightbody,Ying Yi,2017-02-06 An important working resource for engineers and researchers involved in the design development and implementation of signal processing systems The last decade has seen a rapid expansion of the use of field programmable gate arrays FPGAs for a wide range of applications beyond traditional digital signal processing DSP systems Written by a team of experts working at the leading edge of FPGA research and development this second edition of FPGA based Implementation of Signal Processing Systems has been extensively updated and revised to reflect the latest iterations of FPGA theory applications and technology Written from a system level perspective it features expert discussions of contemporary methods and tools used in the design optimization and implementation of DSP systems using programmable FPGA hardware And it provides a wealth of practical insights along with illustrative case studies and timely real world examples of critical concern to engineers working in the design and development of DSP systems for radio telecommunications audio visual and security applications as well as bioinformatics Big Data applications and more Inside you will find up to date coverage of FPGA solutions for Big Data Applications especially as they apply to huge data sets The use of ARM processors in FPGAs and the transfer of FPGAs towards heterogeneous computing platforms The evolution of High Level Synthesis tools including new sections on Xilinx s HLS Vivado tool flow and Altera s OpenCL approach Developments in Graphical Processing Units GPUs which are rapidly replacing more traditional DSP systems FPGA based Implementation of Signal Processing Systems 2nd Edition is an indispensable guide for engineers and researchers involved in the design and development of both traditional and cutting edge data and signal processing systems Senior level electrical and computer engineering graduates studying signal processing or digital signal processing also will find this volume of great interest   A Tiled Fpga Architecture for Power-aware Computations ,2006 Current SRAM FPGAs have reached high gate densities which make them suitable for portable reconfigurable systems and data intensive applications However some challenges need to be faced to make this become a reality First due to a large number of transistors for field programmability and low utilization rate of FPGA resources existing FPGAs are highly power hungry compared to ASICs As chip technology progresses to 90 nm and below this situation becomes worse and static current plays a major role in the total power Second the present column based configuration structure is not flexible enough for applications with multiple reconfigurations Unnecessary memory bits have to be configured if the layout of the module does not fully occupy the height of the device and consequently introduces wastage of time and energy Third the global clock distribution over the whole chip results in a very high power consumption Even when some parts of the hardware resources are not used the whole clock line must be switched at every clock cycle Finally current FPGAs can not support bus routing structure The implementation of data intensive applications using traditional bit based routing tracks will require more routing resource and produce higher power consumption A lot of previous efforts have been made on FPGA power modeling and power reduction In the work of power modeling and

estimation for SRAM FPGAs none of them has considered the impact of inrush current and configuration current which can not be neglected for low power applications that need multiple reconfigurations For the previous power reduction architectures some of them considered either one of dynamic power reduction or static power reduction The other architectures such as dual Vdd FPGA architecture considered both dynamic power and static power reduction But their implementations produce significant area and configuration time overheads and the power management strategy is very inefficient since it is based on fine grained logic blocks or routing switches The complex power management makes these architectures not practical for the real time applications that need multiple dynamic reconfigurations This thesis proposes a battery aware tiled FPGA architecture for data intensive computations The architecture is globally coarse grained in terms of FPGA tiles and locally fine grained in terms of configurable logic blocks within each FPGA tile The main feature of the architecture is that the power supply to each tile can be turned on off depending on the computational requirements and system load The static control strategy is fairly simple which makes the area and configuration time overheads relatively small The architecture adopts a two level configuration structure column based programming and fully random access programming which can efficiently reduce the configuration time and energy while keeping the overheads of pin count and area relatively small This combined configuration architecture enables the easy task relocation from one tile to another The top level routing architecture between tiles is a combined bus based and bit based routing structure which is very efficient for data intensive applications A simulation platform is built with NetLogo to evaluate the proposed architecture Besides dynamic and static currents inrush and configuration currents are also considered The static control function is implemented in the platform to reflect the main feature of the architecture which is the coarse grained power supply control strategy Experimental results on some randomly generated task graphs and a JPEG encoder show that 1 tradeoff between execution time and power battery usage can be achieved by using different number of tiles in the architecture 2 significant savings in battery energy cost can be achieved by using the static control function provided by the architecture 3 by varying the architectural parameters of the tiled FPGA more savings in battery energy cost could be obtained   Field-Programmable Gate Arrays John V. Oldfield,Richard C. Dorf,1995-01-23 Due to unique advantages like security improved testing and reprogrammability field programmable gate arrays are making broad inroads in the electronics industry This comprehensive overview of the topic explains the underlying principles strengths and limitations of a range of FPGA architectures Includes abundant references and illustrations   **Architecture and CAD for Deep-Submicron FPGAS** Vaughn Betz,Jonathan Rose,Alexander Marquardt,1999-03-31 Architecture and CAD for Deep Submicron FPGAs addresses several key issues in the design of high performance FPGA architectures and CAD tools with particular emphasis on issues that are important for FPGAs implemented in deep submicron processes Three factors combine to determine the performance of an FPGA the quality of the CAD tools used to map circuits into the FPGA the quality of the FPGA architecture and the electrical i e

transistor level design of the FPGA Architecture and CAD for Deep Submicron FPGAs examines all three of these issues in concert

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