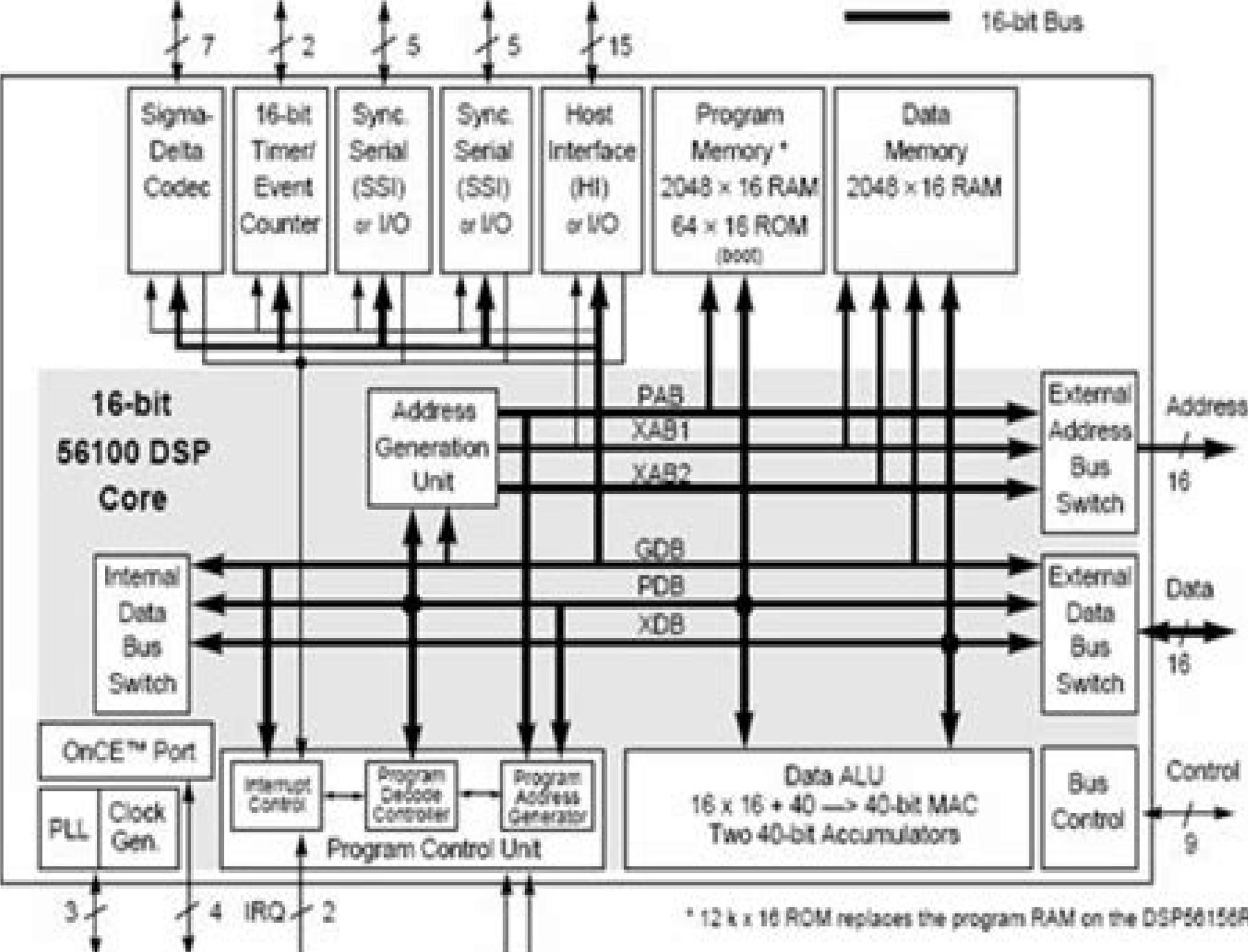


16-bit Bus



* 12 k x 16 ROM replaces the program RAM on the DSP56156ROM

Application Specific Processors

Lothar Thiele (Computer scientist)



Application Specific Processors:

Application Specific Processors Earl E. Swartzlander Jr.,2012-12-06 Application Specific Processors is written for use by engineers who are developing specialized systems application specific systems Traditionally most high performance signal processors have been realized with application specific processors The explanation is that application specific processors can be tailored to exactly match the usually very demanding application requirements The result is that no processing power is wasted for unnecessary capabilities and maximum performance is achieved A disadvantage is that such processors have been expensive to design since each is a unique design that is customized to the specific application In the last decade computer aided design systems have been developed to facilitate the development of application specific integrated circuits The success of such ASIC CAD systems suggests that it should be possible to streamline the process of application specific processor design Application Specific Processors consists of eight chapters which provide a mixture of techniques and examples that relate to application specific processing The inclusion of techniques is expected to suggest additional research and to assist those who are faced with the requirement to implement efficient application specific processors The examples illustrate the application of the concepts and demonstrate the efficiency that can be achieved via application specific processors The chapters were written by members and former members of the application specific processing group at the University of Texas at Austin The first five chapters relate to specific arithmetic which often is the key to achieving high performance in application specific processors The next two chapters focus on signal processing systems and the final chapter examines the interconnection of possibly disparate elements to create systems

Application Specific Processors Earl E Swartzlander Jr,1996-11-30 *Design of Energy-Efficient Application-Specific Instruction Set Processors* Tilman Glökler,Heinrich Meyr,2007-05-08 After a brief introduction to low power VLSI design the design space of ASIP instruction set architectures ISAs is introduced with a special focus on important features for digital signal processing Based on the degrees of freedom offered by this design space a consistent ASIP design flow is proposed this design flow starts with a given application and uses incremental optimization of the ASIP hardware of ASIP coprocessors and of the ASIP software by using a top down approach and by applying application specific modifications on all levels of design hierarchy A broad range of real world signal processing applications serves as vehicle to illustrate each design decision and provides a hands on approach to ASIP design Finally two complete case studies demonstrate the feasibility and the efficiency of the proposed methodology and quantitatively evaluate the benefits of ASIPs in an industrial context

Application Specific Processors Earl E. Swartzlander,1997 Application Specific Processors consists of eight chapters which provide a mixture of techniques and examples that relate to application specific processing The inclusion of techniques is expected to suggest additional research and to assist those who are faced with the requirement to implement efficient application specific processors The examples illustrate the application of the concepts and demonstrate the efficiency that can be achieved via application specific

processors The chapters were written by members and former members of the application specific processing group at the University of Texas at Austin *Application Specific Processors for Numerical Algorithms* Lars Erik Thon,1992

Application Specific Programmable Processor for Sensor Based Networks Kartik Vaidyanathan,2003

Introduction to Reconfigurable Computing Christophe Bobda,2007-09-30 Introduction in Reconfigurable Computing provides a comprehensive study of the field Reconfigurable Computing It provides an entry point to the novice willing to move in the research field reconfigurable computing FPGA and system on programmable chip design The book can also be used as teaching reference for a graduate course in computer engineering or as reference to advance electrical and computer engineers It provides a very strong theoretical and practical background to the field of reconfigurable computing from the early Estrin s machine to the very modern architecture like coarse grained reconfigurable device and the embedded logic devices Apart from the introduction and the conclusion the main chapter of the book are the following Architecture of reconfigurable systems which presents the technology and the architecture used in fined grained and those used in coarse grained reconfigurable devices Design and implementation This section deals with the implementation on reconfigurable system It briefly covers the steps needed to implement application on today s FPGAs And focus on the logic synthesis for FPGA in particular LUT technology mapping High Level Synthesis for Reconfigurable Devices The high level synthesis for reconfigurable systems also known as temporal partitioning is presented here Several temporal partitioning techniques are presented and explained Temporal placement This section considers stand alone reconfigurable systems Its assume that a kind of operating systems for reconfigurable systems is in charge of managing the resources of a given system and allocate space on a device for the computation of incoming tasks and therefore presents several temporal placement approaches for off line as well as on line placement On line and Dynamic Interconnection This chapter reviews andexplains the different approaches for allowing communication between modules dynamically placed at run time on a given device Designing a reconfigurable application on Xilinx Virtex FPGA In this section the different design approaches of partial reconfigurable systems on the Xilinx FPGAs that are one of the few one on the market with this feature is explained System on programmable chip System on programmable chip is a hot topic in reconfigurable computing This is mainly the integration of a system made upon some peripheral UART Ethernet VGA etc but also computational Coding filter etc hardware modules on one programmable chip The current usable solutions are presented The book furthermore focusses on the development of adaptive multiprocessors on chip i e systems consisting of a set of Processors and exchangeable hardware accelerators Applications This part covers the use of reconfigurable system in computer architecture rapid prototyping reconfigurable supercomputer reconfigurable massively parallel computers and algorithm better adapted for reconfigurable systems distributed arithmetic network packet processing etc SOC-Based Solutions in Emerging Application Domains Veena S. Chakravarthi,Shivananda R. Koteshwar,2025-04-09 Working in the ever evolving field of smart chip design within an AI

powered design environment the authors of this book draw on their experiences in successfully developing system on chip SoC solutions having grappled with the emerging design environment innovative tools domain specific challenges and major design decisions for SOC based solutions They present the first comprehensive guide to navigating the technical challenges of SOC based solutions in emerging application domains covering various design and development methodologies for system on chip solutions for emerging target applications When diligently applied the strategies and tactics presented can significantly shorten development timelines help avoid common pitfalls and improve the odds of success especially in AI powered smart EDA environments The book provides a detailed insight into SoC based solutions for various applications including artificial intelligence AI post quantum security feature enhancements 3D SOCs quantum SOCs photonic SOCs and SOC solutions for IoT high performance computing SOCs and processor based systems The coverage includes architecture exploration methods for targeted applications compute intensive SoCs lightweight SoCs for IOT applications advanced technology node solutions and solutions including hardware software co designs and software defined SoCs The strategies best applied in these highly advanced technology developments are discussed in a guest chapter by a practicing high technology strategist so innovators designers entrepreneurs product managers investors and executives may properly prepare their companies to succeed

IEEE International Conference on Application-Specific Systems, Architectures and Processors Lothar Thiele (Computer scientist),1997 These conference papers on computer hardware and design and testing include coverage of miscellaneous applications arithmetic algorithms and architectures DSP architectures systolic algorithms and architectures rapid prototyping design methodologies and compilers

Application Analysis Tools for ASIP Design Kingshuk Karuri,Rainer Leupers,2011-06-15 This book introduces a novel design methodology which can significantly reduce the ASIP development effort through high degrees of design automation The key elements of this new design methodology are a powerful application profiler and an automated instruction set customization tool which considerably lighten the burden of mapping a target application to an ASIP architecture in the initial design stages The book includes several design case studies with real life embedded applications to demonstrate how the methodology and the tools can be used in practice for accelerating the overall ASIP design process

Embedded DSP Processor Design Dake Liu,2008-07-09 This book provides design methods for Digital Signal Processors and Application Specific Instruction set Processors based on the author s extensive industrial design experience Top down and bottom up design methodologies are presented providing valuable guidance for both students and practicing design engineers Coverage includes design of internal external data types application specific instruction sets micro architectures including designs for datapath and control path as well as memory sub systems Integration and verification of a DSP ASIP processor are discussed and reinforced with extensive examples Instruction set design for application specific processors based on fast application profiling Micro architecture design methodology Micro architecture design details based on real examples Extendable architecture design protocols Design for

efficient memory sub systems minimizing on chip memory and cost Real example designs based on extensive industrial experiences

Low-Power Processors and Systems on Chips Christian Piguet,2018-10-03 The power consumption of microprocessors is one of the most important challenges of high performance chips and portable devices In chapters drawn from Piguet s recently published *Low Power Electronics Design* this volume addresses the design of low power microprocessors in deep submicron technologies It provides a focused reference for specialists involved in systems on chips from low power microprocessors to DSP cores reconfigurable processors memories ad hoc networks and embedded software

Low Power Processors and Systems on Chips is organized into three broad sections for convenient access The first section examines the design of digital signal processors for embedded applications and techniques for reducing dynamic and static power at the electrical and system levels The second part describes several aspects of low power systems on chips including hardware and embedded software aspects efficient data storage networks on chips and applications such as routing strategies in wireless RF sensing and actuating devices The final section discusses embedded software issues including details on compilers retargetable compilers and coverification tools Providing detailed examinations contributed by leading experts *Low Power Processors and Systems on Chips* supplies authoritative information on how to maintain high performance while lowering power consumption in modern processors and SoCs It is a must read for anyone designing modern computers or embedded systems

Proceedings of the International Conference on Application Specific Array Processors, September 2-4, 1991, Barcelona, Spain Mateo Valero,1991 The International Conference on Application Specific Array Processors ASAP 91 was held September 1991 in Barcelona Spain Application specific computing may be the solution to many computationally intensive problems Coverage here includes design mapping techniques synthesis and verification and systolic array designs and design methodologies No index Annotation copyrighted by Book News Inc Portland OR

Media Processors ,1999

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Symposium on Application Specific Processors,2008

Automated Mapping of Domain Specific Languages to Application Specific Multiprocessors William Lester Plishker,2006

Application-tuned Processor Architectures Timothy Sherwood,2003

Media Processors 1999 Subramania I. Sudharsanan,V. Michael Bove,1999 This text brings together 20 papers presented at the 1999 IS T SPIE Electronic Imaging Symposium examining media processors It covers media processors video processing hardware and software and the implementation and application of MPEG 4

IEEE Symposium on FPGAs for Custom Computing Machines Peter Athanas,Kenneth L. Pocek,1995

Proceedings of the Seventh International Workshop on Hardware/Software Codesign (CODES'99) Association for Computing Machinery,1999

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