

VLSI DIGITAL SIGNAL PROCESSING SYSTEMS

Design and Implementation

Keshab K. Parhi

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VLSI Digital Signal Processing Systems Keshab K. Parhi, 1999 This graduate level textbook brings together the distinct fields of computer architecture theory and digital signal processing Covering a large amount of material in a single self contained volume it links VLSI architecture with the algorithms on which the accompanying hardware is based

FPGA-based Implementation of Signal Processing Systems Roger Woods, John McAllister, Gaye Lightbody, Ying Yi, 2008-10-13 Field programmable gate arrays FPGAs are an increasingly popular technology for implementing digital signal processing DSP systems By allowing designers to create circuit architectures developed for the specific applications high levels of performance can be achieved for many DSP applications providing considerable improvements over conventional microprocessor and dedicated DSP processor solutions The book addresses the key issue in this process specifically the methods and tools needed for the design optimization and implementation of DSP systems in programmable FPGA hardware It presents a review of the leading edge techniques in this field analyzing advanced DSP based design flows for both signal flow graph SFG based and dataflow based implementation system on chip SoC aspects and future trends and challenges for FPGAs The automation of the techniques for component architectural synthesis computational models and the reduction of energy consumption to help improve FPGA performance are given in detail Written from a system level design perspective and with a DSP focus the authors present many practical application examples of complex DSP implementation involving high performance computing e g matrix operations such as matrix multiplication high speed filtering including finite impulse response FIR filters and wave digital filters WDFs adaptive filtering e g recursive least squares RLS filtering transforms such as the fast Fourier transform FFT FPGA based Implementation of Signal Processing Systems is an important reference for practising engineers and researchers working on the design and development of DSP systems for radio telecommunication information audio visual and security applications Senior level electrical and computer engineering graduates taking courses in signal processing or digital signal processing shall also find this volume of interest

Digital Signal Processing Paulo S. R. Diniz, Eduardo A. B. da Silva, Sergio L. Netto, 2002-04-18 Digital signal processing lies at the heart of the communications revolution and is an essential element of key technologies such as mobile phones and the Internet This book covers all the major topics in digital signal processing DSP design and analysis supported by MatLab examples and other modelling techniques The authors explain clearly and concisely why and how to use digital signal processing systems how to approximate a desired transfer function characteristic using polynomials and ratio of polynomials why an appropriate mapping of a transfer function on to a suitable structure is important for practical applications and how to analyse represent and explore the trade off between time and frequency representation of signals An ideal textbook for students it will also be a useful reference for engineers working on the development of signal processing systems *IEEE Circuits & Devices*, 2000

Custom Memory Management Methodology Francky Catthoor, Sven Wuytack, G.E. de Greef, Florin Banica, Lode

Nachtergaele, Arnout Vandecappelle, 2013-03-09 The main intention of this book is to give an impression of the state of the art in system level memory management data transfer and storage related issues for complex data dominated real time signal and data processing applications The material is based on research at IMEC in this area in the period 1989 1997 In order to deal with the stringent timing requirements and the data dominated characteristics of this domain we have adopted a target architecture style and a systematic methodology to make the exploration and optimization of such systems feasible Our approach is also very heavily application driven which is illustrated by several realistic demonstrators partly used as red thread examples in the book Moreover the book addresses only the steps above the traditional high level synthesis scheduling and allocation or compilation traditional or ILP oriented tasks The latter are mainly focussed on scalar or scalar stream operations and data where the internal structure of the complex data types is not exploited in contrast to the approaches discussed here The proposed methodologies are largely independent of the level of programmability in the data path and controller so they are valuable for the realisation of both hardware and software systems Our target domain consists of signal and data processing systems which deal with large amounts of data

High-Performance VLSI Signal Processing Innovative Architectures and Algorithms, Systems Design and Applications K. J. Ray Liu, Kung Yao, 1998 Electrical Engineering Signal Processing High Performance VLSI Signal Processing Innovative Architectures and Algorithms Volume 2 Systems Design And Applications The second volume in a two volume set High Performance VLSI Signal Processing Innovative Architectures and Algorithms brings together the most innovative papers in the field focused introductory material and extensive references The editors present timely coverage of the latest design tools design environments and implementations of VLSI signal processing systems These volumes will serve as vital resources for engineers who want a comprehensive knowledge of the extremely interdisciplinary field of high performance VLSI processing The editors provide a practical understanding of the merits of total system design through an insightful synergistic presentation of methodology architecture and infrastructure Each volume features Major papers that span the wide range of research areas in the field Chapter introductions including historical perspectives Numerous applications oriented design examples Coverage of current and future technological trends

VLSI Signal Processing, VIII IEEE Signal Processing Society, 1995

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