

COMPUTER-HARDWARE EVALUATION OF MATHEMATICAL FUNCTIONS

Amos Omondi

Imperial College Press

Computer Hardware Evaluation Mathematical Functions Omondi

C. T. Fike



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Computer-Hardware Evaluation of Mathematical Functions Amos OMONDI, 2015-10-22 Computer Hardware Evaluation of Mathematical Functions provides a thorough up to date understanding of the methods used in computer hardware for the evaluation of mathematical functions reciprocals square roots exponentials logarithms trigonometric functions hyperbolic functions etc It discusses how the methods are derived how they work and how well they work The methods are divided into four core themes CORDIC normalization table look up and polynomial approximations In each case the author carefully considers the mathematical derivation and basis of the relevant methods how effective they are including mathematical errors analysis and how they can be implemented in hardware This book is an excellent resource for any student or researcher seeking a comprehensive yet easily understandable explanation of how computer chips evaluate mathematical functions

Cryptography Arithmetic Amos R. Omondi, 2020-01-30 Modern cryptosystems used in numerous applications that require secrecy or privacy electronic mail financial transactions medical record keeping government affairs social media etc are based on sophisticated mathematics and algorithms that in implementation involve much computer arithmetic And for speed it is necessary that the arithmetic be realized at the hardware chip level This book is an introduction to the implementation of cryptosystems at that level The aforementioned arithmetic is mostly the arithmetic of finite fields and the book is essentially one on the arithmetic of prime fields and binary fields in the context of cryptography The book has three main parts The first part is on generic algorithms and hardware architectures for the basic arithmetic operations addition subtraction multiplication and division The second part is on the arithmetic of prime fields And the third part is on the arithmetic of binary fields The mathematical fundamentals necessary for the latter two parts are included as are descriptions of various types of cryptosystems to provide appropriate context This book is intended for advanced level students in Computer Science Computer Engineering and Electrical and Electronic Engineering Practitioners too will find it useful as will those with a general interest in hard applications of mathematics

Application-Specific Arithmetic Florent de Dinechin, Martin Kumm, 2024-03-12 Written by two experts of the domain this book presents the most recent advances in computer arithmetic hardware with a focus on application specific arithmetic beyond the classic operators and the standard precisions It targets silicon designers who have to do better with less in the post Moore era and FPGA developers who want to exploit the full possibilities of reconfigurable computing platforms

Computer Arithmetic Systems Amos R. Omondi, 1994 Aimed at digital designers computer hardware designers and computer architects this title deals with algorithms and hardware for operations in conventional fixed point number systems algorithms and hardware for operations in floating point number systems and unconventional number systems

CAD/CAM Abstracts, 1992

Computer Evaluation of Mathematical Functions C. T. Fike, 1970

Computer evaluation of mathematical functions Charles Theodore Fike, 1968

Computer Performance Evaluation: Modelling Techniques and Tools Tony Field, Peter G.

Harrison,Jeremy Bradley,Uli Harder,2003-08-01 This book constitutes the refereed proceedings of the 12th International Conference on Modelling Techniques and Tools for Computer Performance Evaluation TOOLS 2002 held in London UK in April 2002 The 18 revised full papers and six tool papers presented together with an invited contribution were carefully reviewed and selected from 57 submissions Among the topics addressed are generic techniques like stochastic process algebras and the analysis of Petri nets and Markov chains as well as the development and employment of tools in areas such as the Internet software performance engineering parallel systems real time systems and transaction processing

The Mathematical-Function Computation Handbook Nelson H.F. Beebe,2017-08-20 This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of mathematics extending the function coverage of major programming languages well beyond their international standards including full support for decimal floating point arithmetic Written with clarity and focusing on the C language the work pays extensive attention to little understood aspects of floating point and integer arithmetic and to software portability as well as to important historical architectures It extends support to a future 256 bit floating point format offering 70 decimal digits of precision Select Topics and Features references an exceptionally useful author maintained MathCW website containing source code for the book s software compiled libraries for numerous systems pre built C compilers and other related materials offers a unique approach to covering mathematical function computation using decimal arithmetic provides extremely versatile appendices for interfaces to numerous other languages Ada C C Fortran Java and Pascal presupposes only basic familiarity with computer programming in a common language as well as early level algebra supplies a library that readily adapts for existing scripting languages with minimal effort supports both binary and decimal arithmetic in up to 10 different floating point formats covers a significant portion with highly accurate implementations of the U S National Institute of Standards and Technology s 10 year project to codify mathematical functions This highly practical text reference is an invaluable tool for advanced undergraduates recording many lessons of the intermingled history of computer hardware and software numerical algorithms and mathematics In addition professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades

Computer Performance Evaluation Anthony J. Field,2002-04-03 This book constitutes the refereed proceedings of the 12th International Conference on Modelling Techniques and Tools for Computer Performance Evaluation TOOLS 2002 held in London UK in April 2002 The 18 revised full papers and six tool papers presented together with an invited contribution were carefully reviewed and selected from 57 submissions Among the topics addressed are generic techniques like stochastic process algebras and the analysis of Petri nets and Markov chains as well as the development and employment of tools in areas such as the Internet software performance engineering parallel systems real time systems and transaction processing

Computer Hardware Evaluation ,1984

Mathematical Functions and Their Approximations Yudell L. Luke,2014-05-10

Mathematical Functions and their Approximations is an updated version of the Applied Mathematics Series 55 Handbook based on the 1954 Conference on Mathematical Tables held at Cambridge Massachusetts The aim of the conference is to determine the need for mathematical tables in view of the availability of high speed computing machinery This work is composed of 14 chapters that cover the machinery for the expansion of the generalized hypergeometric function and other functions in infinite series of Jacobi and Chebyshev polynomials of the first kind Numerical coefficients for Chebyshev expansions of the more common functions are tabulated Other chapters contain polynomial and rational approximations for certain class of G functions the coefficients in the early polynomials of these rational approximations and the Pad approximations for many of the elementary functions and the incomplete gamma functions The remaining chapters describe the development of analytic approximations and expansions This book will prove useful to mathematicians advance mathematics students and researchers

A bibliography on the evaluation of mathematical functions

L. W. Fullerton, 1980 *Lectures on the Measurement and Evaluation of the Performance of Computing Systems* Saul Rosen, 1976-01-01 The scope of the discussion is limited to certain types of general purpose computing systems whose characteristics involve multiprogramming multiprocessors communication lines serving many users and on line terminal systems The goal is to gain a better understanding of computing systems through the techniques of measurement and performance evaluation

Performance Evaluation of Numerical Software Lloyd Dudley Fosdick, 1979 *Measuring Computer Performance* David J. Lilja, 2005-09-08 Sets out the fundamental techniques used in analyzing and understanding the performance of computer systems

Flexible Hardware for Computing Complex Evaluation Functions Carl Ebeling, 1991 We have gained considerable experience with this evaluation architecture in the domain of chess where it has been used for the position evaluation part of the Hitech chess machine 1 It has been extremely successful for this problem and we believe it has a greater general unity In this paper we describe the overall evaluation architecture and its operation and discuss a range of implementations that take advantage of both the characteristics of the problem itself and the implementation medium

Computer Performance Measurement and Evaluation Methods Liba Svobodova, 1976 Performance evaluation is not just determining whether or not a system meets certain objectives it is also understanding if and how system performance can be improved A computer system analyst must master a number of techniques to ascertain important factors and their effect on system performance The purpose of this book is to develop a better understanding of the problem of performance evaluation and to analyze available techniques within this concept Directed to present and future computer analysts and designers readers should be familiar with concepts of hardware organization system architecture and operating systems

The Science of Computer Benchmarking Roger W. Hockney, 1996-01-01 This book provides an introduction to computer benchmarking Hockney includes material concerned with the definition of performance parameters and metrics and defines a set of suitable metrics with which to measure performance and units with which to express them He also

presents new ideas resulting from the application of dimensional analysis to the field of computer benchmarking This results in the definition of a dimensionless universal scaling diagram that completely describes the scaling properties of a class of computer benchmarks on a single diagram for all problem sizes and all computers describable by a defined set of hardware parameters

Computable Functions Nikolai Konstantinovich Vereshchagin, Alexander Shen, 2003 Based on the lectures for undergraduates at Moscow State University this book presents a lively and concise introduction to the central facts and basic notions of the general theory of computation It begins with the definition of a computable function and an algorithm and discusses decidability enumerability universal functions numberings and their properties the fixed point theorem arithmetical hierarchy oracle computations and degrees

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