

Improving Floating-Point Programming

Edited by
Peter J.L. Wallis



Improving Floating Point Programming

John A McDermid



Improving Floating Point Programming:

Improving Floating-Point Programming Peter J. L. Wallis, 1990 This contributed work covers in precise detail the potential sources of error in floating point programming and how these trouble spots can be controlled Explains several methods for improving the accuracy of floating point programming concentrating on those methods that are relevant to the exploitation of the Karlsruhe Accurate Arithmetic Programming Languages and Systems Peter Thiemann, 2016-03-21 This book constitutes the proceedings of the 25th European Symposium on Programming ESOP 2016 which took place in Eindhoven The Netherlands in April 2016 held as Part of the European Joint Conferences on Theory and Practice of Software ETAPS 2016 The 29 papers presented in this volume were carefully reviewed and selected from 98 submissions Being devoted to fundamental issues in the specification design analysis and implementation of programming languages and systems ESOP features contributions on all aspects of programming language research theoretical and or practical advances

Software Engineer's Reference Book John A McDermid, 2013-10-22 Software Engineer s Reference Book provides the fundamental principles and general approaches contemporary information and applications for developing the software of computer systems The book is comprised of three main parts an epilogue and a comprehensive index The first part covers the theory of computer science and relevant mathematics Topics under this section include logic set theory Turing machines theory of computation and computational complexity Part II is a discussion of software development methods techniques and technology primarily based around a conventional view of the software life cycle Topics discussed include methods such as CORE SSADM and SREM and formal methods including VDM and Z Attention is also given to other technical activities in the life cycle including testing and prototyping The final part describes the techniques and standards which are relevant in producing particular classes of application The text will be of great use to software engineers software project managers and students of computer science **Handbook of Floating-Point Arithmetic** Jean-Michel Muller, Nicolas Brisebarre, Florent de Dinechin, Claude-Pierre Jeannerod, Vincent Lefèvre, Guillaume Melquiond, Nathalie Revol, Damien Stehlé, Serge

Torres, 2009-11-11 Floating point arithmetic is the most widely used way of implementing real number arithmetic on modern computers However making such an arithmetic reliable and portable yet fast is a very difficult task As a result floating point arithmetic is far from being exploited to its full potential This handbook aims to provide a complete overview of modern floating point arithmetic So that the techniques presented can be put directly into practice in actual coding or design they are illustrated whenever possible by a corresponding program The handbook is designed for programmers of numerical applications compiler designers programmers of floating point algorithms designers of arithmetic operators and more generally students and researchers in numerical analysis who wish to better understand a tool used in their daily work and research **The Student Supercomputer Challenge Guide** ASC Community, 2018-03-26 This guide provides a comprehensive overview of High Performance Computing HPC to equip students with a full skill set including cluster setup

network selection and a background of supercomputing competitions It covers the system architecture evaluating approaches and other practical supercomputing techniques As the world's largest supercomputing hackathon the ASC Student Supercomputer Challenge has attracted a growing number of new talent to supercomputing and has greatly promoted communications in the global HPC community Enclosed in this book readers will also find how to analyze and optimize supercomputing systems and applications in real science and engineering cases

Accuracy and Stability of Numerical Algorithms Nicholas J. Higham, 2002-08-01 *Accuracy and Stability of Numerical Algorithms* gives a thorough up to date treatment of the behavior of numerical algorithms in finite precision arithmetic It combines algorithmic derivations perturbation theory and rounding error analysis all enlivened by historical perspective and informative quotations This second edition expands and updates the coverage of the first edition 1996 and includes numerous improvements to the original material Two new chapters treat symmetric indefinite systems and skew symmetric systems and nonlinear systems and Newton's method Twelve new sections include coverage of additional error bounds for Gaussian elimination rank revealing LU factorizations weighted and constrained least squares problems and the fused multiply add operation found on some modern computer architectures

Knowing Machines Donald A. MacKenzie, 1998 The essays are tied together by their explorations of connections primarily among technology society and knowledge and by their general focus on modern high technology They also share an emphasis on the complexity of technological formation and fixation and on the role of belief especially self validating belief in technological change

Algorithm Engineering Matthias Müller-Hannemann, Stefan Schirra, 2010-08-05 Algorithms are essential building blocks of computer applications However advancements in computer hardware which render traditional computer models more and more unrealistic and an ever increasing demand for efficient solution to actual real world problems have led to a rising gap between classical algorithm theory and algorithmics in practice The emerging discipline of Algorithm Engineering aims at bridging this gap Driven by concrete applications Algorithm Engineering complements theory by the benefits of experimentation and puts equal emphasis on all aspects arising during a cyclic solution process ranging from realistic modeling design analysis robust and efficient implementations to careful experiments This tutorial outcome of a GI Dagstuhl Seminar held in Dagstuhl Castle in September 2006 covers the essential aspects of this process in ten chapters on basic ideas modeling and design issues analysis of algorithms realistic computer models implementation aspects and algorithmic software libraries selected case studies as well as challenges in Algorithm Engineering Both researchers and practitioners in the field will find it useful as a state of the art survey

Artificial Intelligence and Symbolic Computation John A. Campbell, 2001-04-25 This book constitutes the thoroughly refereed post proceedings of the International Conference on Artificial Intelligence and Symbolic Computation AISC 2000 held in Madrid Spain in July 2000 The 17 revised full papers presented together with three invited papers were carefully reviewed and revised for inclusion in the book Among the topics addressed are automated theorem

proving logical reasoning mathematical modeling of multi agent systems expert systems and machine learning computational mathematics engineering and industrial applications *Quantification of Uncertainty: Improving Efficiency and Technology* Marta D'Elia,Max Gunzburger,Gianluigi Rozza,2020-07-30 This book explores four guiding themes reduced order modelling high dimensional problems efficient algorithms and applications by reviewing recent algorithmic and mathematical advances and the development of new research directions for uncertainty quantification in the context of partial differential equations with random inputs Highlighting the most promising approaches for near future improvements in the way uncertainty quantification problems in the partial differential equation setting are solved and gathering contributions by leading international experts the book s content will impact the scientific engineering financial economic environmental social and commercial sectors *Elementary Functions*: Jean-Michel Muller,2013-03-14 The elementary functions sine cosine exponentials logarithms are the most commonly used mathematical functions Computing them quickly and accurately is a major goal in computer arithmetic This book gives the theoretical background necessary to understand and or build algorithms for computing these functions presents algorithms hardware oriented as well as software oriented and discusses issues related to the accurate floating point implementation of these functions My purpose was not to give cooking recipes that allow to implement some given functions on some given floating point systems but to provide the reader with the knowledge that is necessary to build or adapt algorithms to his or her computing environment When writing this book I have had in mind two different audiences specialists who will have to design floating point systems hardware or soft ware parts orto do research on algorithms and inquiring minds who just want to know what kind of methods are used to compute the math functions in current computers or pocket calculators Because of this the book is in tended to be helpful as well for postgraduate and advanced undergraduate students in computer science or applied mathematics as for professionals engaged in the design of algorithms programs or circuits that implement floating point arithmetic or simply for engineers or scientists who want to improve their culture in that domain IBM z13s Technical Guide Octavian Lascu,Barbara Sannerud,Cecilia A. De Leon,Edzard Hoogerbrug,Ewerson Palacio,Franco Pinto,Jin J. Yang,John P. Troy,Martin Soellig,IBM Redbooks,2016-11-10 Digital business has been driving the transformation of underlying information technology IT infrastructure to be more efficient secure adaptive and integrated IT must be able to handle the explosive growth of mobile clients and employees It also must be able to process enormous amounts of data to provide deep and real time insights to help achieve the greatest business impact This IBM Redbooks publication addresses the new IBM z Systems™ single frame the IBM z13s server IBM z Systems servers are the trusted enterprise platform for integrating data transactions and insight A data centric infrastructure must always be available with a 99 999% or better availability have flawless data integrity and be secured from misuse It needs to be an integrated infrastructure that can support new applications It also needs to have integrated capabilities that can provide new mobile capabilities with real time analytics delivered by a secure cloud

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More Java Gems Dwight Deugo, 2000-01-28 This book presents the best articles and columns published in Java Report between 1997 and 1999 Each article is independent of any specific version of Java and relies mainly on those classes that are now part of the standard Java class library and APIs Also each article and column discusses Java topics and implementations that are not readily available in a single book The book serves as an excellent reference to anyone involved with Java The reader can learn more about the language perform analysis design and modeling work on specific implementations check performance and perform testing This book presents the good ideas of people who have used Java for Real applications

Higher Order Logic Theorem Proving and its Applications L.J.M. Claesen, M.J.C. Gordon, 2014-05-23 The HOL system is a higher order logic theorem proving system implemented at Edinburgh University Cambridge University and INRIA Its many applications from the verification of hardware designs at all levels to the verification of programs and communication protocols are considered in depth in this volume Other systems based on higher order logic namely Nuprl and LAMBDA are also discussed Features given particular consideration are novel developments in higher order logic and its implementations in HOL formal design and verification methodologies for hardware and software public domain availability of the HOL system Papers addressing these issues have been divided as follows Mathematical Logic Induction General Modelling and Proofs Formalizing and Modelling of Automata Program Verification Hardware Description Language Semantics Hardware Verification Methodologies Simulation in Higher Order Logic Extended Uses of Higher Order Logic Academic and industrial researchers involved in formal hardware and software design and verification methods should find the publication especially interesting and it is hoped it will also provide a useful reference tool for those working at software institutes and within the electronics industries

Advanced Arithmetic for the Digital Computer Ulrich W. Kulisch, 2012-09-07 The number one requirement for computer arithmetic has always been speed It is the main force that drives the technology With increased speed larger problems can be attempted To gain speed advanced processors and programming languages offer for instance compound arithmetic operations like matmul and dotproduct But there is another side

to the computational cost the accuracy and reliability of the computed result Progress on this side is very important if not essential Compound arithmetic operations for instance should always deliver a correct result The user should not be obliged to perform an error analysis every time a compound arithmetic operation implemented by the hardware manufacturer or in the programming language is employed This treatise deals with computer arithmetic in a more general sense than usual Advanced computer arithmetic extends the accuracy of the elementary floating point operations for instance as defined by the IEEE arithmetic standard to all operations in the usual product spaces of computation the complex numbers the real and complex intervals and the real and complex vectors and matrices and their interval counterparts The implementation of advanced computer arithmetic by fast hardware is examined in this book Arithmetic units for its elementary components are described It is shown that the requirements for speed and for reliability do not conflict with each other Advanced computer arithmetic is superior to other arithmetic with respect to accuracy costs and speed

Design and Implementation of Symbolic Computation Systems Alfonso Miola, 1990-03-26 The growing importance of the systems for symbolic computation has greatly influenced the decision of organizing DISCO 90 which is short for International Symposium on Design and Implementation of Symbolic Computation Systems DISCO 90 focuses mainly on the most innovative methodological and technological aspects of hardware and software system design and implementation for Symbolic and Algebraic Computation Automated Reasoning Software Environments Languages and User Interfaces and Automatic Programming In particular it includes papers on the design and the development of significant running systems The general objective of DISCO 90 is to present an up to date view of the field while encouraging the scientific exchange among academic industrial and user communities of the development of systems for symbolic computation

Computer Aided Proofs in Analysis Kenneth R. Meyer, Dieter S. Schmidt, 2012-12-06 This IMA Volume in Mathematics and its Applications COMPUTER AIDED PROOFS IN ANALYSIS is based on the proceedings of an IMA Participating Institutions PI Conference held at the University of Cincinnati in April 1989 Each year the 19 Participating Institutions select through a competitive process several conferences proposals from the PIs for partial funding This conference brought together leading figures in a number of fields who were interested in finding exact answers to problems in analysis through computer methods We thank Kenneth Meyer and Dieter Schmidt for organizing the meeting and editing the proceedings

A vner Friedman Willard Miller Jr PREFACE Since the dawn of the computer revolution the vast majority of scientific computation has dealt with finding approximate solutions of equations However during this time there has been a small cadre seeking precise solutions of equations and rigorous proofs of mathematical results For example number theory and combinatorics have a long history of computer assisted proofs such methods are now well established in these fields In analysis the use of computers to obtain exact results has been fragmented into several schools

Scientific Computing with Automatic Result Verification Adams, 1992-12-03

Scientific Computing with Automatic Result Verification **Rigorous Global Search: Continuous Problems** R. Baker

Kearfott,2013-03-09 This work grew out of several years of research graduate seminars and talks on the subject It was motivated by a desire to make the technology accessible to those who most needed it or could most use it It is meant to be a self contained introduction a reference for the techniques and a guide to the literature for the underlying theory It contains pointers to fertile areas for future research It also serves as introductory documentation for a Fortran 90 software package for nonlinear systems and global optimization The subject of the monograph is deterministic automatically verified or rigorous methods In such methods directed rounding and computational fix point theory are combined with exhaustive search branch and bound techniques Completion of such an algorithm with a list of solutions constitutes a rigorous mathematical proof that all of the solutions within the original search region are within the output list The monograph is appropriate as an introduction to research and technology in the area as a desk reference or as a graduate level course reference Knowledge of calculus linear algebra and elementary numerical analysis is assumed **Intelligent Computer Mathematics** Serge Autexier,2008-07-16 This book constitutes the joint refereed proceedings of the 9th International Conference on Artificial Intelligence and Symbolic Computation AISC 2008 the 15th Symposium on the Integration of Symbolic Computation and Mechanized Reasoning Calculemus 2008 and the 7th International Conference on Mathematical Knowledge Management MKM 2008 held in Birmingham UK in July August as CICM 2008 the Conferences on Intelligent Computer Mathematics The 14 revised full papers for AISC 2008 10 revised full papers for Calculemus 2008 and 18 revised full papers for MKM 2008 plus 5 invited talks were carefully reviewed and selected from a total of 81 submissions for a joint presentation in the book The papers cover different aspects of traditional branches in CS such as computer algebra theorem proving and artificial intelligence in general as well as newly emerging ones such as user interfaces knowledge management and theory exploration thus facilitating the development of integrated mechanized mathematical assistants that will be routinely used by mathematicians computer scientists and engineers in their every day business

Unveiling the Magic of Words: A Report on "**Improving Floating Point Programming**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Improving Floating Point Programming**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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Table of Contents Improving Floating Point Programming

1. Understanding the eBook Improving Floating Point Programming
 - The Rise of Digital Reading Improving Floating Point Programming
 - Advantages of eBooks Over Traditional Books
2. Identifying Improving Floating Point Programming
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Improving Floating Point Programming
 - User-Friendly Interface
4. Exploring eBook Recommendations from Improving Floating Point Programming
 - Personalized Recommendations
 - Improving Floating Point Programming User Reviews and Ratings
 - Improving Floating Point Programming and Bestseller Lists

5. Accessing Improving Floating Point Programming Free and Paid eBooks
 - Improving Floating Point Programming Public Domain eBooks
 - Improving Floating Point Programming eBook Subscription Services
 - Improving Floating Point Programming Budget-Friendly Options
6. Navigating Improving Floating Point Programming eBook Formats
 - ePub, PDF, MOBI, and More
 - Improving Floating Point Programming Compatibility with Devices
 - Improving Floating Point Programming Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Improving Floating Point Programming
 - Highlighting and Note-Taking Improving Floating Point Programming
 - Interactive Elements Improving Floating Point Programming
8. Staying Engaged with Improving Floating Point Programming
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Improving Floating Point Programming
9. Balancing eBooks and Physical Books Improving Floating Point Programming
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Improving Floating Point Programming
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Improving Floating Point Programming
 - Setting Reading Goals Improving Floating Point Programming
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Improving Floating Point Programming
 - Fact-Checking eBook Content of Improving Floating Point Programming
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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