Jean-Michel Muller Nicolas Brunie Florent de Dinechin Claude-Pierre Jeannerod Mioara Joldes Vincent Lefèvre Guillaume Melquiond Nathalie Revol Serge Torres

# Handbook of Floating-Point Arithmetic

Second Edition



🕲 Birkhäuser

**Nelson H.F. Beebe** 

Handbook of Floating-Point Arithmetic Jean-Michel Muller, Nicolas Brunie, Florent de Dinechin, Claude-Pierre Jeannerod, Mioara Joldes, Vincent Lefèvre, Guillaume Melquiond, Nathalie Revol, Serge Torres, 2018-05-02 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 Handbook of Floating-point Arithmetic ,2010 Handbook of Floating-Point Arithmetic Jean-Michel Muller, Nicolas Brisebarre, Florent de Dinechin, Claude-Pierre Jeannerod, Vincent Lefèvre, Guillaume Melguiond, 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 Mathematical-Function Computation Handbook Nelson H.F. 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examples throughout the text demonstrate how Mathematica can be used to solve problems in science engineering economics finance computational linguistics geoscience bioinformatics and a range of other fields The book will appeal to students researchers and programmers wishing to further their understanding of Mathematica Designed to suit users of any ability it assumes no formal knowledge of programming so it is ideal for self study Over 290 exercises are provided to challenge the reader's understanding of the material covered and these provide ample opportunity to practice using the language Mathematica notebooks containing examples programs and solutions to exercises are available from www cambridge org wellin The CUDA Handbook Nicholas Wilt, 2013 The CUDA Handbook begins where CUDA by Example leaves off discussing both CUDA hardware and software in detail that will engage any CUDA developer from the casual to the most hardcore Newer CUDA developers will see how the hardware processes commands and the driver checks progress hardcore CUDA developers will appreciate topics such as the driver API context migration and how best to structure CPU GPU data interchange and synchronization The book is partly a reference resource and partly a cookbook **Programming Developer's Handbook** David Chisnall, 2009-12-29 The Cocoa programming environment Apple s powerful set of clean object oriented APIs is increasingly becoming the basis of almost all contemporary Mac OS X development With its long history of constant refinement and improvement Cocoa has matured into a sophisticated programming environment that can make Mac OS X application development guick efficient and even fun Yet for all its refined elegance and ease of use the staggering size of the Cocoa family of APIs and the vast magnitude of the official documentation can be intimidating to even seasoned programmers To help Mac OS X developers sort through and begin to put to practical use Cocoa s vast array of tools and technologies Cocoa Programming Developer's Handbook provides a guided tour of the Cocoa APIs found on Mac OS X thoroughly discussing and showing in action Cocoa's core frameworks and other vital components as well as calling attention to some of the more interesting but often overlooked parts of the APIs and tools This book provides expert insight into a wide range of key topics from user interface design to network programming and performance tuning

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