



Building Parallel, Embedded, and Real-Time Applications with Ada

By John W. McCormick, Frank Singhoff, Jérôme Hugues

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The arrival and popularity of multi-core processors has sparked a renewed interest in the development of parallel programs. Similarly, the availability of low-cost microprocessors and sensors has generated a great interest in embedded real-time programs. This book provides students and programmers whose backgrounds are in traditional sequential programming with the opportunity to expand their capabilities into parallel, embedded, real-time and distributed computing. It also addresses the theoretical foundation of real-time scheduling analysis, focusing on theory that is useful for actual applications. Written by award-winning educators at a level suitable for undergraduates and beginning graduate students, this book is the first truly entry-level textbook in the subject. Complete examples allow readers to understand the context in which a new concept is used, and enable them to build and run the examples, make changes, and observe the results.

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- Sales Rank: #2205067 in Books
- Published on: 2011-05-16
- Original language: English
- Number of items: 1
- Dimensions: 9.72" h x .87" w x 6.85" l, 2.00 pounds
- Binding: Hardcover
- 388 pages



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Editorial Review

Review

"By providing an extensive foundation for real-time and embedded systems programming, this book serves a much-needed role for both students and professional alike. Students will benefit from the clarity of the text and the many straight-forward examples. Professional developers will benefit from the breadth of material showing how to harness multi-core and multi-processor platforms effectively, with a mainstream, industrial-strength concurrent programming language. The accessibility and readability provided by the Ada language make it ideal for such a book, even for those not using Ada at present. As the owner of more than forty books on Ada and many years of embedded/real-time systems development, I am happy to recommend this one and look forward to its publication."

Patrick Rogers, AdaCore

"This book by McCormick, Singhoff, and Hugues succeeds in introducing a very complicated and wide-ranging topic. It is well written and has extensive examples that are readily accessible but nonetheless reflect the complexities of the real world. I highly recommend the book."

Ada Letters

"This is a most rewarding book to read and absorb. I strongly recommend it."

George Hacken, Computing Reviews

"The book and supporting website are an impressive body of work by the authors... I recommend this excellent book to anyone with a technical interest in real-time, parallel, and embedded programming."

Howard Ausden, ACM SIGSOFT Software Engineering Notes

"The book is very well-written... Building Parallel, Embedded, and Real-Time Applications with Ada is one of those volumes that makes you think, especially about the hard problems (like real-time, multitasking and multicore) facing the firmware world today. I recommend it."

Jack G. Ganssle

About the Author

John McCormick is Professor of Computer Science at the University of Northern Iowa.

Frank Singhoff is Professor of Computer Science at the Université de Bretagne Occidentale (University of Brest).

Jérôme Hugues is Associate Professor in the Department of Mathematics, Computer Science, and Control at the Institute for Space and Aeronautics Engineering (ISAE), Toulouse.

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