

The Art Of Multiprocessor Programming

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The Art of Multiprocessor Programming promises to be the first comprehensive presentation of the principles and tools available for programming multiprocessor machines. As the computer industry changes from single-processor to multiprocessor architectures, this revolution requires a fundamental change in how programs are written.

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The Art of Multiprocessor Programming Description. The Art of Multiprocessor Programming, Second Edition, provides users with an authoritative guide to... About the Authors. Maurice Herlihy received an A.B. in Mathematics from Harvard University, and a Ph.D. in Computer...

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Buy The Art of Multiprocessor Programming, Revised Reprint Revised ed. by Herlihy, Maurice, Shavit, Nir (ISBN: 9780123973375) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

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Revised and updated with improvements conceived in parallel programming courses, The Art of Multiprocessor Programming is an authoritative guide to multicore programming. It introduces a higher level set of software development skills than that needed for efficient single-core programming. This book provides comprehensive coverage of the new principles, algorithms, and tools necessary for effective multiprocessor programming.

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The Art of Multiprocessor Programming Version of 10 February 2009 In many places, inserted text is highlighted in red. Preface p. xx " all of which are useful in structuring concurrent applications. " Chapter 1 p. 4 In Fig. 1.1, line 4 should say for (int j = (i * block) + 1; j <= (i + 1)* block; j++) { p. 11 p. 18

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The Art of Multiprocessor Programming. Thispageintentionallyleftblank. The Art of Multiprocessor Programming MauriceHerlihy NirShavit AMSTERDAM •BOSTON HEIDELBERG •LONDON NEW YORK •OXFORD PARIS SAN DIEGO SAN FRANCISCO •SINGAPORE SYDNEY •TOKYO Morgan Kaufmann Publishers is an imprint of Elsevier.

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The Art of Multiprocessor Programming, Second Edition, provides users with an authoritative guide to multicore programming. This updated edition introduces higher level software development skills relative to those needed for efficient single-core programming, and includes comprehensive coverage of the new principles, algorithms, and tools necessary for effective multiprocessor programming.

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* THE book on multicore programming, the new paradigm of computer science* Written by the world's most revered experts in multiprocessor programming and performance* Includes examples, models, exercises, PowerPoint slides, and sample Java programs

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Art of Multiprocessor Programming 12 Locks Not Composable Lock source Lock target Unlock source & target Methods cannot provide internal synchronization Objects must expose locking protocols to clients Clients must devise and follow protocols Abstraction broken! 13 Monitor Wait and Signal zzz Empty buffer

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The Art of Multiprocessor Programming. January 2008; DOI: 10.1145/1146381.1146382. Source: DBLP; ... We consider various state-of-the-art x86 architectures: Intel Haswell, Xeon Phi, Ivy Bridge ...

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Art of Multiprocessor Programming Excercises and code related to ' The Art of Multiprocessor Programming ' by Maurice Herlihy and Nir Shavit.

[GitHub - plbpietrz/art-of-multiprocessor-programming](#)

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The concepts are correct and the theory is good but I cannot accept someone to say is teaching "The art of multiprocessor programming" in Java. Java has very few problems in concurrency due to simplification. A much better book is " C++ Concurrency in Action", because C++ exposes low level problems in concurrency.

[The Art of Multiprocessor Programming, Revised Reprint...](#)

The Art of Multiprocessor Programming is an outstanding text that will soon become a classic. I give a chapter by chapter review of it below. Practitioners that are already well versed in parallel programming can jump directly to Chapter 7, however, I would suggest at least skimming Chapters 2, 3 and 4.

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As the computer industry changes from single-processor to multiprocessor architectures, this revolution requires a fundamental change in how programs are written. To leverage the performance and power of multiprocessor programming, also known as multicore programming, you need to learn the new principles, algorithms, and tools presented in this book.

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