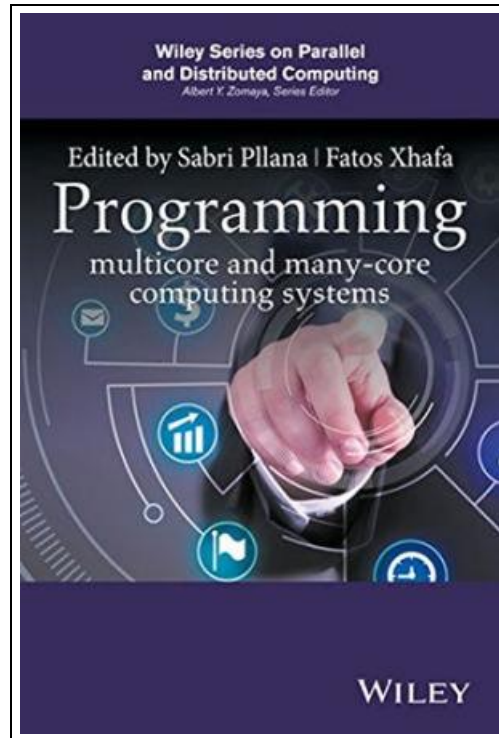# Programming Multicore and Many-core Computing Systems

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PROGRAMMING MULTICORE AND MANY-CORE COMPUTING SYSTEMS

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Condition: New. Publisher/Verlag: Wiley & Sons | Programming multi-core and many-core computing systemsSabri Pllana, Linnaeus University, SwedenFatos Xhafa, Technical University of Catalonia, SpainProvides state-of-the-art methods for programming multi-core and many-core systemsThe book comprises a selection of twenty two chapters covering: fundamental techniques and algorithms; programming approaches; methodologies and frameworks; scheduling and management; testing and evaluation methodologies; and case studies for programming multi-core and many-core systems.Program development for multi-core processors, especially for heterogeneous multi-core processors, is significantly more complex than for single-core processors. However, programmers have been traditionally trained for the development of sequential programs, and only a small percentage of them have experience with parallel programming. In the past, only a relatively small group of programmers interested in High Performance Computing (HPC) was concerned with the parallel programming issues, but the situation has changed dramatically with the appearance of multi-core processors on commonly used computing systems. It is expected that with the pervasiveness of multi-core processors, parallel programming will become mainstream.The pervasiveness of multi-core processors affects a large spectrum of systems, from embedded and general-purpose, to high-end computing systems. This book assists programmers in mastering the efficient programming of multi-core systems, which is of paramount importance for the software-intensive industry towards a more effective product-development cycle.Key features:Lessons, challenges, and roadmaps ahead.Contains real world examples and case studies.Helps programmers in mastering the efficient programming of multi-core and many-core systems.The book serves as a reference for a larger audience of practitioners, young researchers and graduate level students. A basic level of programming knowledge is required to use this book. | LIST OF CONTRIBUTORS ixPREFACE xvACKNOWLEDGEMENTS xxiiiACRONYMS xxvPART I FOUNDATIONS1 Multi- and Many-Cores, Architectural Overview for Programmers 1Lasse Natvig, Alexandru Iordan, Mujahed Eleyat, Magnus Jahre and Jorn Amundsen2 Programming Models for MultiCore and Many-Core Computing Systems 29Ana Lucia Varbanescu, Rob V. van Nieuwpoort,...

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