



Professional Parallel Programming with C#

Master Parallel Extensions with .NET 4

Gastón C. Hillar

Professional Parallel Programming With C Master Parallel Extensions With Net 4

Andrew Troelsen, Philip Japikse



Professional Parallel Programming With C Master Parallel Extensions With Net 4:

Professional Parallel Programming with C# Gastón C. Hillar, 2010-12-08 Expert guidance for those programming today's dual core processors PCs As PC processors explode from one or two to now eight processors there is an urgent need for programmers to master concurrent programming This book dives deep into the latest technologies available to programmers for creating professional parallel applications using C NET 4 and Visual Studio 2010 The book covers task based programming coordination data structures PLINQ thread pools asynchronous programming model and more It also teaches other parallel programming techniques such as SIMD and vectorization Teaches programmers professional level task based parallel programming with C NET 4 and Visual Studio 2010 Covers concurrent collections coordinated data structures PLINQ thread pools asynchronous programming model Visual Studio 2010 debugging and parallel testing and tuning Explores vectorization SIMD instructions and additional parallel libraries Master the tools and technology you need to develop thread safe concurrent applications for multi core systems with Professional Parallel Programming with C

China Satellite Navigation Conference (CSNC) 2015 Proceedings: Volume III Jiadong Sun, Jingnan Liu, Shiwei Fan, Xiaochun Lu, 2015-04-21 China Satellite Navigation Conference CSNC 2015 Proceedings presents selected research papers from CSNC2015 held during 13th 15th May in Xian China The theme of CSNC2015 is Opening up Connectivity and Win win These papers discuss the technologies and applications of the Global Navigation Satellite System GNSS and the latest progress made in the China BeiDou System BDS especially They are divided into 10 topics to match the corresponding sessions in CSNC2015 which broadly covered key topics in GNSS Readers can learn about the BDS and keep abreast of the latest advances in GNSS techniques and applications SUN Jiadong is the Chief Designer of the Compass BDS and the academician of Chinese Academy of Sciences CAS LIU Jingnan is a professor at Wuhan University FAN Shiwei is a researcher at China Satellite Navigation Office LU Xiaochun is an academician of Chinese Academy of Sciences CAS

Algorithms & Architectures For Parallel Processing, 4th Intl Conf Andrzej Marian Goscinski, Horace Ho Shing Ip, Wei-jia Jia, Wan Lei Zhou, 2000-11-24 ICA3PP 2000 was an important conference that brought together researchers and practitioners from academia industry and governments to advance the knowledge of parallel and distributed computing The proceedings constitute a well defined set of innovative research papers in two broad areas of parallel and distributed computing 1 architectures algorithms and networks 2 systems and applications

Lectures on Concurrency and Petri Nets Jörg Desel, Wolfgang Reisig, Grzegorz Rozenberg, 2004-06-14 This tutorial volume originates from the 4th Advanced Course on Petri Nets ACPN 2003 held in Eichstätt Germany in September 2003 In addition to lectures given at ACPN 2003 additional chapters have been commissioned to give a well balanced presentation of the state of the art in the area This book will be useful as both a reference for those working in the area as well as a study book for the reader who is interested in an up to date overview of research and development in concurrent and distributed systems of course readers specifically interested in theoretical or applicational

aspects of Petri nets will appreciate the book as well Pro C# 7 Andrew Troelsen, Philip Japikse, 2017-11-21 This essential classic title provides a comprehensive foundation in the C programming language and the frameworks it lives in Now in its 8th edition you ll find all the very latest C 7 1 and NET 4 7 features here along with four brand new chapters on Microsoft s lightweight cross platform framework NET Core up to and including NET Core 2 0 Coverage of ASP NET Core Entity Framework EF Core and more sits alongside the latest updates to NET including Windows Presentation Foundation WPF Windows Communication Foundation WCF and ASP NET MVC Dive in and discover why Pro C has been a favorite of C developers worldwide for over 15 years Gain a solid foundation in object oriented development techniques attributes and reflection generics and collections as well as numerous advanced topics not found in other texts such as CIL opcodes and emitting dynamic assemblies With the help of this book you ll have the confidence to put C into practice and explore the NET universe on your own terms What You Will Learn Discover the latest C 7 1 features from tuples to pattern matching Hit the ground running with Microsoft s lightweight open source NET Core platform including ASP NET Core MVC ASP NET Core web services and Entity Framework Core Find complete coverage of XAML NET 4 7 and Visual Studio 2017 Understand the philosophy behind NET and the new cross platform alternative NET Core **GMD Report** ,1998 **Byte** ,1993-09

Innovations in Computing Sciences and Software Engineering Tarek Sobh, Khaled Elleithy, 2010-06-26 Innovations in Computing Sciences and Software Engineering includes a set of rigorously reviewed world class manuscripts addressing and detailing state of the art research projects in the areas of Computer Science Software Engineering Computer Engineering and Systems Engineering and Sciences Topics Covered Image and Pattern Recognition Compression Image processing Signal Processing Architectures Signal Processing for Communication Signal Processing Implementation Speech Compression and Video Coding Architectures Languages and Systems Algorithms Databases Embedded Systems and Applications File Systems and I O Geographical Information Systems Kernel and OS Structures Knowledge Based Systems Modeling and Simulation Object Based Software Engineering Programming Languages and Programming Models and tools Parallel Processing Distributed Scheduling Multiprocessing Real time Systems Simulation Modeling and Development and Web Applications Signal and Image Processing Content Based Video Retrieval Character Recognition Incremental Learning for Speech Recognition Signal Processing Theory and Methods and Vision based Monitoring Systems Software and Systems Activity Based Software Estimation Algorithms Genetic Algorithms Information Systems Security Programming Languages Software Protection Techniques Software Protection Techniques and User Interfaces Distributed Processing Asynchronous Message Passing System Heterogeneous Software Environments Mobile Ad Hoc Networks Resource Allocation and Sensor Networks New trends in computing Computers for People of Special Needs Fuzzy Inference Human Computer Interaction Incremental Learning Internet based Computing Models Machine Intelligence Natural Language **Second International Workshop on High-Level Parallel Programming Models and Supportive Environments** Hermann Hellwagner, 1997

Proceedings Parallel Computing Compilation and Synthesis for Embedded Reconfigurable Systems João Manuel Paiva Cardoso, Pedro C. Diniz, José Gabriel de Figueiredo Coutinho, Zlatko Marinov Petrov, 2013-05-16 This book provides techniques to tackle the design challenges raised by the increasing diversity and complexity of emerging heterogeneous architectures for embedded systems It describes an approach based on techniques from software engineering called aspect oriented programming which allow designers to control today's sophisticated design tool chains while maintaining a single application source code Readers are introduced to the basic concepts of an aspect oriented domain specific language that enables control of a wide range of compilation and synthesis tools in the partitioning and mapping of an application to a heterogeneous and possibly multi core target architecture Several examples are presented that illustrate the benefits of the approach developed for applications from avionics and digital signal processing Using the aspect oriented programming techniques presented in this book developers can reuse extensive sections of their designs while preserving the original application source code thus promoting developer productivity as well as architecture and performance portability Describes an aspect oriented approach for the compilation and synthesis of applications targeting heterogeneous embedded computing architectures Includes examples using an integrated tool chain for compilation and synthesis Provides validation and evaluation for targeted reconfigurable heterogeneous architectures Enables design portability given changing target devices Allows developers to maintain a single application source code when targeting multiple architectures

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