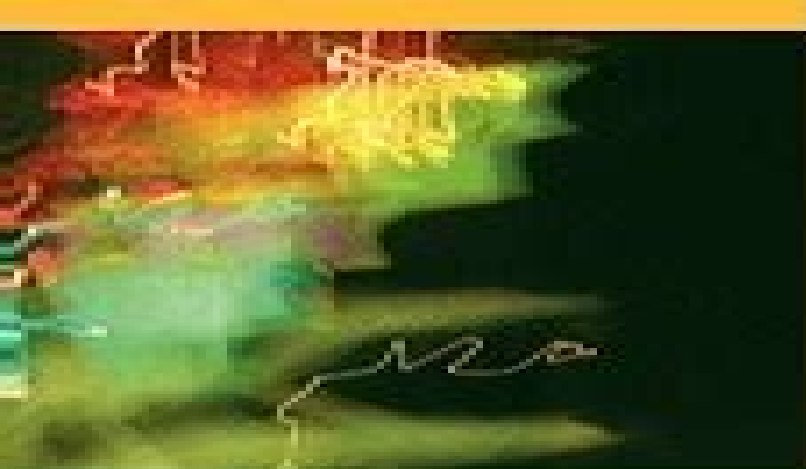




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Performance with Perl::PDQ Neil J. Gunther, 2009-03-22 Makes performance analysis and queueing theory concepts simple to understand and available to anyone with a background in high school algebra Presents the practical application of these concepts in the context of modern distributed computer system designs Packed with helpful examples that are based on the author s experience analyzing the performance of large scale systems over the past 20 years **Analyzing Computer**

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Knowledge Engineering and Management Fuchun Sun, Tianrui Li, Hongbo Li, 2013-07-24 These proceedings present technical papers selected from the 2012 International Conference on Intelligent Systems and Knowledge Engineering ISKE 2012 held on December 15 17 in Beijing The aim of this conference is to bring together experts from different fields of expertise to discuss the state of the art in Intelligent Systems and Knowledge Engineering and to present new findings and

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Programming Multicore and Many-core Computing Systems Sabri Pllana, Fatos Xhafa, 2017-01-23 Programming multi core and many core computing systems Sabri Pllana Linnaeus University Sweden Fatos Xhafa Technical University of Catalonia Spain Provides state of the art methods for programming multi core and many core systems The 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

Computational Science and Computational Intelligence Hamid R. Arabnia, Leonidas Deligiannidis, Farzan Shenavarmasouleh, Soheyla Amirian, Farid Ghareh Mohammadi, 2025-09-22 This CCIS book constitutes selected papers accepted in the Research Tracks on Computational Science Computational Intelligence and Computational Biology of the 11th International Conference on Computational Science and Computational Intelligence CSCI 2024 which took place in Las Vegas NV USA during December 11 13 2024 The 35 full papers included in this book were carefully reviewed and selected from a total of 180 submissions They were organized in topical sections on computational science and applications artificial intelligence and applications scientific computing and HPC health informatics and computational biology and computational science and computational intelligence

Guerrilla Capacity Planning Neil J. Gunther, 2007-01-17 In these days of shortened fiscal horizons and contracted time to market schedules traditional approaches to capacity planning are often seen by management as tending to inflate their production schedules Rather than giving up in the face of this kind of relentless pressure to get things done faster Guerrilla Capacity Planning facilitates rapid forecasting of capacity requirements based on the opportunistic use of whatever performance data and tools are available in such a way that management insight is expanded but their schedules are not A key Guerrilla concept is tactical planning whereby short range planning questions and projects are brought up in team meetings such that management is compelled to know the answer and therefore buys into capacity planning without recognizing it as such Once you have your foot in the door capacity planning methods can be refined in an iterative cycle of improvement called The Wheel of Capacity Planning Another unique Guerrilla tool is Virtual Load Testing based on Dr Gunther s Universal Law of Computational Scaling which provides a highly cost effective method for assessing application scalability

Building a National Distributed E-Infrastructure -- PL-Grid Marian Bubak, Tomasz Szepieniec, Kazimierz Wiatr, 2012-03-02 This book describes scientific results obtained by project partners and outcomes of research and development activities carried out within the Polish Infrastructure for Information Science Support in the European Research Space PL Grid PL Grid 2011

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