

Parallels Workstation User Guide

The MicroStrategy Analytics Desktop User Guide describes the steps for a business analyst to execute and analyze a Visual Insight dashboard in MicroStrategy Analytics Desktop. It provides the information necessary for a business analyst to import data from a data source, and use that data to create and modify dashboards.

This book constitutes the thoroughly refereed post-workshop proceedings of the 6th International Workshop on Job Scheduling Strategies for Parallel Processing, JSSPP 2000, held in Cancun, Mexico in May 2000 as a satellite meeting of IPDPS 2000. The 12 revised full papers presented were carefully reviewed during an iterated evaluation process and present the state of the art in the area.

Contents: Description #Encyclopedia bibliographical references and index.

IPSP 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. Contents: Cluster Computing Interconnection Networks and Routing Parallel Architecture & Parallel I/O Systems Parallel and Distributed Databases Parallel Algorithms I Tools and Environments for Parallel and Distributed Software Development Parallel Algorithms II Parallel Processing on Web-Based Systems and Applications Distributed and Parallel Operating Systems and Middleware High-Performance Scientific Computing Parallel and Distributed Processing Fault-Tolerant Computing High-Performance Data Management

Readership: Researchers, graduate students, academics and practitioners in computing. Keywords:

Task Scheduling for Parallel Systems

Parle '91 Parallel Architectures and Languages Europe

5th International Workshop, PARA 2000, Bergen, Norway, June 18-20, 2000 Proceedings

6th European PVM/MPI Users' Group Meeting, Barcelona, Spain, September 26-29, 1999, Proceedings

Parallel and Distributed Processing

Parallel Computational Fluid Dynamics '93

This 43rd volume assesses the value of EDI to using workstations as building blocks for parallel computing.

This book constitutes the thoroughly refereed post-proceedings of the 6th International Conference on Parallel Processing and Applied Mathematics, PPAM 2005. The book presents 135 papers organized in topical sections on parallel and distributed architectures, parallel and distributed non-numerical algorithms, performance analysis, prediction and optimization, grid programming, tools and environments for clusters and grids, applications of parallel/distributed/grid computing, evolutionary computing with applications, parallel data mining, parallel numerical and mathematical and computing methods.

This IMA Volume in Mathematics and Its Applications ALGORITHMS FOR PARALLEL PROCESSING is based on the proceedings of a workshop that was an integral part of the 1996-97 IMA program on "MATHEMATICS IN HIGH-PERFORMANCE COMPUTING." The workshop brought together algorithm developers from theory, combinatorics, and scientific computing. The topics ranged over models, linear algebra, sorting, randomization, and graph algorithms and their analysis. We thank Michael T. Heath of University of Illinois at Urbana (Com-puter Science), Abhiram Ranade of the Indian Institute of Technology (Computer Science and Engineering), and Robert S. Schreiber of Hewlett Packard Laboratories for their excellent work in organizing the workshop and editing the proceedings. We also take this opportunity to thank the National Science Founda tion (NSF) and the Army Research Office (ARO), whose financial support made the workshop possible. A vner Friedman Robert Gulliver v PREFACE The Workshop on Algorithms for Parallel Processing was held at the IMA September 16 - 20, 1996; it was the first workshop of the IMA year dedicated to the mathematics of high performance computing. The work shop organizers were Abhiram Ranade of The Indian institute of Tech nology, Bombay, Michael Heath of the University of Illinois, and Robert Schreiber of Hewlett Packard Laboratories. Our idea was to bring together researchers who do innovative, exciting, parallel algorithms research on a wide range of topics, and by sharing insights, problems, tools, and methods to learn something of value from one another. The broadening of interest in parallel computing and transputers is reflected this book. Topics discussed include: concurrent programming; graphics and image processing; parallel applications; robotics; and control and software tools. The book also features a collection of abstracts of poster presentations.

6th International Conference, PPAM 2005, Poznan, Poland, September 11-14, 2005, Revised Selected Papers

Monthly Catalogue, United States Public Documents

Network-Based Parallel Computing, Communication, Architecture, and Applications

Parallel Computing

Enterprise Mac Administrators Guide

This book constitutes the refereed proceedings of the Third European Conference on the Parallel Virtual Machine, EuroPVM '96, the 1996 European PVM users' group meeting, held in Munich, Germany, in October 1996. The parallel virtual machine, PVM, was developed at the University of Tennessee and Oak Ridge National Laboratory in cooperation with Emory University and Carnegie Mellon University to support distributed computing. This volume comprises 51 revised full contributions devoted to PVM. The papers are organized in topical sections on evaluation of PVM; Applications: CFD solvers; tools for PVM; non-numerical applications; extensions to PVM; etc. This IBM® Redbooks® publication documents and addresses topics to provide step-by-step customizable application and programming solutions to tune application workloads to use IBM Power Systems™ hardware architecture. This publication explores, tests, and documents the solution to use the architectural technologies and the software solutions that are available from IBM to help solve challenging technical and business problems. This publication also demonstrates and documents that the combination of IBM high-performance computing (HPC) solutions (hardware and software) delivers significant value to technical computing clients who are in need of cost-effective, highly scalable, and robust solutions. First, the book provides a high-level overview of the HPC solution, including all of the components that makes the HPC cluster: IBM Power System S822LC (8335-GTB), software components, interconnect switches, and the IBM Spectrum™ Scale parallel file system. Then, the publication is divided in three parts: Part 1 focuses on the developers, Part 2 focuses on the administrators, and Part 3 focuses on the evaluators and planners of the solution. The IBM Redbooks publication is targeted toward technical professionals (consultants, technical support staff, IT Architects, and IT Specialists) who are responsible for delivering cost-effective HPC solutions that help uncover insights from vast amounts of client's data so they can optimize business results, product development, and scientific discoveries.

Here, authors from academia and practice provide practitioners, scientists and graduates with basic methods and paradigms, as well as important issues and trends across the spectrum of parallel and distributed processing. In particular, they cover such fundamental topics as efficient parallel algorithms, languages for parallel processing, parallel operating systems, architecture of parallel and distributed systems, management of resources, tools for parallel computing, parallel database systems and multimedia object servers, as well as the relevant networking aspects. A chapter is dedicated to each of parallel and distributed scientific computing, high-performance computing in molecular sciences, and multimedia applications for parallel and distributed systems.

Technical articles on the 19th meeting of the World Occam and Transputer User Group (WoTUG). They cover a wide range of topics from hardware applications to software tools for of parallel processing support; not solely related to transputers. Part of the book focusses on the retargeting of the occam compiler to a range of other processors.

Second International Workshop, CANPC'98, Las Vegas, Nevada, USA, January 31 - February 1, 1998, Proceedings

5th European PVM/MPI Users' Group Meeting, Liverpool, UK, September 7-9, 1998, Proceedings

IPDPS 2000 Workshop, JSSPP 2000, Cancun, Mexico, May 1, 2000 Proceedings

Algorithms for Parallel Processing

Equalizer Programming and User Guide

Third European PVM Conference, Munich, Germany, October, 7 - 9, 1996, Proceedings

This volume gives an overview of the state-of-the-art with respect to the development of all types of parallel computers and their application to a wide range of problem areas. The international conference on parallel computing ParCo97 (Parallel Computing 97) was held in Bonn, Germany from 19 to 22 September 1997. The first conference in this biannual series was held in 1983 in Berlin. Further conferences were held in Leiden (The Netherlands), London (UK), Grenoble (France) and Gent (Belgium). From the outset the aim with the ParCo (Parallel Computing) conferences was to promote the application of parallel computers to solve real life problems. In the case of ParCo97 a new milestone was reached in that more than half of the papers and posters presented were concerned with application aspects. This fact reflects the coming of age of parallel computing. Some 200 papers were submitted to the Program Committee by authors from all over the world. The final programme consisted of four invited papers, 71 contributed scientific/industrial papers and 45 posters. In addition a panel discussion on Parallel Computing and the Evolution of Cyberpace was held. During and after the conference all final contributions were refereed. Only those papers and posters accepted during this final screening process are included in this volume. The practical emphasis of the conference was accentuated by an industrial exhibition where companies demonstrated the newest developments in parallel processing equipment and software. Speakers from participating companies presented papers in industrial sessions in which new developments in parallel computing were reported.

Computer Science and Engineering is a component of Encyclopedia of Technology, Information, and Systems Management Resources in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on Computer Science and Engineering provides the essential aspects and fundamentals of Hardware Architectures, Software Architectures, Algorithms and Data Structures, Programming Languages and Computer Security. It is aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers.

Contents: A Lattice Solid Model for the Nonlinear Dynamics of Earthquakes (P Mora & D Place) Vectorized and Parallelized Algorithms for Multi-Million Particle MD-Simulations (W Form et al) Green-Function Method for Electronic Structure of Periodic Crystals (R Zeller) Parallelization of the Ising Simulation (N Ito) A Nonlocal Approach to Vertex Models and Quantum Spin Systems (H G Evertz & M Marcu) The Static Quark-Antiquark-Potential: A 'Classical' Experiment on the Connection Machine CM-2 (K Schilling & G S Bali) Determination of Monopole Current Clusters in Four-Dimensional Quantum

Electrodynamics (A Bode et al) QCD Calculations on the QCDPAX (K Kanaya/UKQCD — Recent Results and Future Prospects (R Kenway/Programming Tools for Parallel Computers (K J M Moriarity & T Trappenberg) Workstation Clusters: One Way to Parallel Computing (M Weber) APE100 and Beyond (R Tripiccione) and other papers

Readership: Computational physicists. keywords:

This book constitutes the strictly refereed proceedings of the Second International Workshop on Communication and Architectural Support for Network-Based Parallel Computing, CANPC'98, held in Las Vegas, Nevada, USA, in January/February 1998. The 18 revised full papers presented were selected from 38 submissions on the basis of four to five reviews per paper. The volume comprises a representative compilation of state-of-the-art solutions for network-based parallel computing. Several new interconnection technologies, new software schemes and standards are studied and developed to provide low-latency and high-bandwidth interconnections for network-based parallel computing.

11th (i.e. 11) IPSPS/PDP'99 Workshops Held in Conjunction with the 13th International Parallel Processing Symposium and 10th Symposium on Parallel and Distributed Processing, San Juan, Puerto Rico, USA, April 12-16, 1999 : Proceedings

Algorithms and Architectures for Parallel Processing

ICA3PP 2000

Parallel Processing Developments

The Complete and Up to Date Guide to Buying a Business Computer

Monthly Catalog of United States Government Publications

Now you no longer have to choose between Mac OS X and Windows! The latest Macs from Apple can run both Mac OS X and Windows, so you're not limited to just one operating system. Running Windows on your Mac explains how this simple technology works and walks you through every phase of the process of setting up Windows on your Mac. Are you a Windows user who's buying your first Mac? A Macintosh user who needs to run Windows software? Or just a computer user who wants the best of both worlds? There's something in this book for everyone. You'll find detailed instructions for installing Windows on your Mac in three easy ways; a friendly guide to the Mac for Windows users; and a handy reference to Windows for Mac users. In this book, you'll learn how to Load and configure the two most popular Mac OS X virtualization programs, Parallels Desktop for Mac and VM ware Fusion. Install Windows easily, either in Parallels or Fusion, or with Boot Camp. Keep your Windows installation in top shape, free of viruses and spyware. Run Windows applications alongside Macintosh programs. Add your new Mac to an existing Windows network. Explore the intricacies of a new operating system, whether it's Mac OS X or Windows.

This book constitutes the refereed proceedings of the 5th European Meeting of the Parallel Virtual Machine and Message Passing Interface Users' Group, PVM/MPI '98, held in Liverpool, UK, in September 1998. The 49 contributed and invited papers presented were carefully reviewed and revised for inclusion in the volume. All current aspects of PVM and MPI are addressed. The papers are organized in topical sections on evaluation and performance, extensions and improvements, implementation issues, tools, and algorithms.

This volume contains the papers presented at the Parallel Computing Fluid Dynamics '93 Conference, Paris, 1993. A wide range of topics are covered including: networked computers, data parallel programming, domain decomposition, Euler and Navier-Stokes solvers. Researchers in this area will find this volume a useful reference in this rapidly developing field.

The official reference for developing and deploying parallel, scalable OpenGL applications based on the Equalizer parallel rendering framework.

Euro-Par '96 - Parallel Processing

WoTUG-19 : Proceedings of the 19th World Occam and Transputer User Group Technical Meeting, 31st March-3rd April 1996, Nottingham, UK

Recent Advances in Parallel Virtual Machine and Message Passing Interface

MicroStrategy Analytics Desktop User Guide

Implementing an IBM High-Performance Computing Solution on IBM Power System S822LC

Proceedings of ITR 2019

Parallel Virtual Machine (PVM) and Message Passing Interface (MPI) are the most frequently used tools for programming according to the message passing paradigm, which is considered one of the best ways to develop parallel applications. This volume comprises 67 revised contributions presented at the Sixth European PVM/MPI Users' Group Meeting, which was held in Barcelona, Spain, 26-29 September 1999. The conference was organized by the Computer Science Department of the Universitat Autònoma de Barcelona. This conference has been previously held in Liverpool, UK (1996), and was held at the TU Munich, Germany (1996), ENS Lyon, France (1995), and University of Rome (1994). This conference has become a forum for users and developers of PVM, MPI, and other message-passing environments. Interaction between those groups has proved to be very useful for developing new ideas in parallel computing and for applying some of those already existent to new practical fields. The innovative progress in the development of large-and small-scale parallel computing systems and their increasing availability have caused a sharp rise in interest in the scientific principles that underlie parallel computation and parallel programming. The biannual "Parallel Architectures and Languages Europe" (PARLE) conferences aim at presenting current research material on all aspects of the theory, design, and application of parallel computing systems and parallel processing. At the same time, the goal of the PARLE conferences is to provide a forum for researchers and practitioners to ex change ideas on recent developments and trends in the field of parallel com puting and parallel programming. The first -wo conferences, PARLE '87 and PARLE '89, have succeeded in meeting this goal and made PARLE a conference that is recognized worldwide in the field of parallel computation. PARLE '91 again offers a wealth of high-quality research material for the benefit of the scientific community. Compared to its predecessors, the scope of PARLE '91 has been broadened so as to cover the area of parallel algo rithms and complexity, in addition to the central themes of parallel archi tectures and languages. The proceedings of the PARLE '91 conference contain the text of all con tributed papers that were selected for the programme and of the invited papers by leading experts in the field.

This book constitutes the thoroughly refereed post-proceedings of the 5th International Workshop on Applied Parallel Computing, PARA 2000, held in Bergen, Norway in June 2000. The 46 revised papers presented were carefully reviewed and selected for inclusion in the book. The papers address a variety of topics in large scale parallel and industrial strength high-performance computing, in particular HPC applications in industry and academia, Java in HPC and networking, and education in computational science.

PD5IA '99 was the fourth in a series of international workshops on parallel symbolic computing, a basic yet challenging area with wide applications in high-performance computation. As in the previous meetings, parallel symbolic languages and systems were the major topics. However, reflecting the latest advances in distributed computing systems, the workshop also encompassed wider perspectives in parallel and distributed computing for symbolic and irregular applications. Contents: Evaluation Strategies Languages and Programming Memory Management and Implementation Techniques Systems and Applications Readership: Researchers and graduate students in parallel and/or distributed computing and symbolic computation. Keywords: Parallel Symbolic Computing: Parallel Symbolic Languages Distributed Computing Systems

Technology and Practice

Desktop User Guide for MicroStrategy 10

Windows NT Workstation User's Guide

10th International IPSPS/SPDP'98 Workshops, Held in Conjunction with the 12th International Parallel Processing Symposium and 9th Symposium on Parallel and Distributed Processing, Orlando, Florida, USA, March 30 - April 3, 1998, Proceedings

Microcomputer User's Handbook

Encyclopedia of Computer Science and Technology

Equalizer Programming and User Guide The official reference for developing and deploying parallel, scalable OpenGL applications using the Equalizer parallel rendering framework Eyescale Software GmbH

This IBM® Redbooks® publication demonstrates and documents that IBM Power Systems™ high-performance computing and technical computing solutions deliver faster time to value with powerful solutions. Configurable into highly scalable Linux clusters, Power Systems offer extreme performance for demanding workloads such as genomics, finance, computational chemistry, oil and gas exploration, and high-performance data analytics. This book delivers a high-performance computing solution implemented on the IBM Power System S822LC. The solution delivers for-big-data architecture that incorporates IBM POWER8® processors, tightly coupled Field Programmable Gate Arrays (FPGAs) and accelerators, and faster I/O by using Coherent Accelerator Processor Interface (CAPI). This solution is ideal for clients that need more processing power while simultaneously increasing workload density and reducing datacenter floor space requirements. The Power S822LC offers a modular design to scale from a single rack to hundreds, simplicity of ordering, and a strong innovation roadmap for graphics processing units (GPUs). (consultants, technical support staff, IT Architects, and IT Specialists) responsible for delivering cost effective high-performance computing (HPC) solutions that help uncover insights from their data so they can optimize business results, product development, and scientific discoveries.

Recent advances in large scale DNA sequencing technology have made it possible to sequence the entire genome of an organism. Attention is now turning to the analysis of the product of the genome, the proteome, which is the set of proteins being expressed by a cell. Mass spectrometry is the method of choice for the rapid large-scale identification of these proteomes and their modifications. This is the first book to extensively cover the applications of mass spectrometry to proteome research.

Charles Edge and Bill Smith provide detailed explanations of the technology required for large-scale Mac OS X deployments and show you how to integrate it with other operating systems and applications. Now in its second edition, Enterprise Mac Administrator's Guide addresses the growing size and spread of Mac OS X deployments in corporations and institutions worldwide. In some cases, this is due to the growth of traditional Mac environments, but for the most part it has to do with organizations instituting device choice and switcher campaigns, where a steep culture shock with many of these migrations. The products that are used are different, the nomenclature is different, and most importantly the best practices for dealing with the operating system and updates are very different. Apple provides a number of tools to help automate and guide IT toward managing a large number of Mac OS X computers—it has since before Mac OS X was initially released. However, if you want to put together all of the pieces to tell a compelling story about how to run an IT department or a deployment of Macs, you need explanations of the technology required. What You'll Learn Choose a directory services model that works for your organization and integrate it into your existing model Choose an imaging model and begin imaging workstations with or without third-party products Use the Mac App Store and Apple's Volume Purchasing Program to deploy apps Leverage scripting techniques to reduce labor for the IT department Provide network services (file sharing, mobile home folders, messaging, etc.) to the Mac OS X clients Who This Book Is For System administrators and IT computers, be they Mac OS X-based servers or workstations. The assumption is that readers are somewhat familiar with Mac OS X and/or IT in general, but not that they are familiar with the Apple system internals, server services, or deployment techniques.

Scientific and Technical Aerospace Reports

Computer Science and Engineering

Volume I: Parallel Architectures and Algorithms Eindhoven, The Netherlands, June 10-13, 1991 Proceedings

Second International Euro-Par Conference, Lyon, France, August 26 - 29, 1996, Proceedings

Parallel Virtual Machine - EuroPVM'96

Portable Programming on Parallel/networked Computers Using the Application Portable Parallel Library (APPL)

This volume gathers the latest advances, innovations, and applications in the field of intelligent systems such as robots, cyber-physical and embedded systems, as presented by leading international researchers and engineers at the International Conference on Intelligent Technologies in Robotics (ITR), held in Moscow, Russia on October 21-23, 2019. It covers highly diverse topics, including robotics, design and machining, control and dynamics, bio-inspired systems, Internet of Thing, Big Data, RFID technology, blockchain, trusted software, cyber-physical systems (CPS), security, development of CPS in manufacturing, protection of information in CPS, cybersecurity of CPS. The contributions, which were selected by means of a rigorous international peer-review process, highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaboration among different specialists, demonstrating that intelligent systems will drive the technological and societal change in the coming decades.

** An invaluable reference for anyone designing new parallel or distributed systems. * Includes detailed case studies of specific systems from Stanford, MIT, and other leading research universities. * The authors emphasize performance, surveying all available techniques.*

A new model for task scheduling that dramatically improves the efficiency of parallel systems Task scheduling for parallel systems can become a quagmire of heuristics, models, and methods that have been developed over the past decades. The author of this innovative text cuts through the confusion and complexity by presenting a consistent and comprehensive theoretical framework along with realistic parallel system models. These new models, based on an investigation of the concepts and principles underlying task scheduling, take into account heterogeneity, contention for communication resources, and the involvement of the processor in communications. For readers who may be new to task scheduling, the first chapters are essential. They serve as an excellent introduction to programming parallel systems, and they place task scheduling within the context of the program parallelization process. The author then reviews the basics of graph theory, discussing the major graph models used to represent parallel programs. Next, the author introduces his task scheduling framework. He carefully explains the theoretical background of this framework and provides several examples to enable readers to fully understand how it greatly simplifies and, at the same time, enhances the ability to schedule. The second half of the text examines both basic and advanced scheduling techniques, offering readers a thorough understanding of the principles underlying scheduling algorithms. The final two chapters address communication contention in scheduling and processor involvement in communications. Each chapter features exercises that help readers put their new skills into practice. An extensive bibliography leads to additional information for further research. Finally, the use of figures and examples helps readers better visualize and understand complex concepts and processes. Researchers and students in distributed and parallel computer systems will find that this text dramatically improves their ability to schedule tasks accurately and efficiently.

This book constitutes the refereed proceedings of the 8th European PVM/MPI Users' Group Meeting held in Santorini (Thera), Greece in September 2001. The 50 revised papers presented together with seven abstracts of invited talks were carefully reviewed and selected. The papers are organized in topical sections on implementation, evaluation, and performance of PVM/MPI; extensions and improvements on PVM/MPI; tools for PVM and MPI; algorithms using message passing; and applications in science and engineering.

Running Windows on Your Mac

8th European PVM/MPI Users' Group Meeting, Santorini/Thera, Greece, September 23-26, 2001. Proceedings

Proteome Research: Mass Spectrometry

Applied Parallel Computing. New Paradigms for HPC in Industry and Academia

Advanced Technologies in Robotics and Intelligent Systems

Parallel Computing: Fundamentals, Applications and New Directions

This book constitutes the refereed proceedings of 11 IPSPS/SPDP '98 Workshops held in conjunction with the 13th International Parallel Processing Symposium and the 10th Symposium on Parallel and Distributed Processing in San Juan, Puerto Rico, USA in April 1999. The 126 revised papers presented were carefully selected from a wealth of papers submitted. The papers are organised in topical sections on biologically inspired solutions to parallel processing problems: High-Level Parallel Programming Models and Supportive Environments; Biologically Inspired Solutions to Parallel Processing; Parallel and Distributed Real-Time Systems; Run-Time Systems for Parallel Programming; Reconfigurable Architectures; Java for Parallel and Distributed Computing; Optics and Computer Science; Solving Irregularly Structured Problems in Parallel; Personal Computer Based Workstation Networks; Formal Methods for Parallel Programming; Embedded HPC Systems and Applications.

This book constitutes the refereed proceedings of 10 international workshops held in conjunction with the merged 1998 IPSPS/SPDP symposia, held in Orlando, Florida, US in March/April 1998. The volume comprises 118 revised full papers presenting cutting-edge research or work in progress. In accordance with the workshops covered, the papers are organized in topical sections on reconfigurable architectures, run-time systems for parallel programming, biologically inspired solutions to parallel processing problems, randomized parallel computing, solving combinatorial optimization problems in parallel, PC based networks of workstations, fault-tolerant parallel and distributed systems, formal methods for parallel programming, embedded HPC systems and applications, and parallel and distributed real-time systems.

Parallel and Distributed Computing for Symbolic and Irregular Applications

Job Scheduling Strategies for Parallel Processing

New Trends and Advances

Large Scale Computational Physics on Massively Parallel Computers

The official reference for developing and deploying parallel, scalable OpenGL applications using the Equalizer parallel rendering framework

Handbook on Parallel and Distributed Processing