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Grid and Cloud Computing: Concepts, Methodologies, Tools and Applications Computational Science — ICCS 2004 Return of the Condor Beowulf Cluster Computing with Linux Sociometrics and Human Relationships Quantitative Quality of Service for Grid Computing: Applications for Heterogeneity, Large-Scale Distribution, and Dynamic Environments Fundamentals of Grid Computing Grid Computing Advances in Grid and Pervasive Computing Beowulf Cluster Computing with Windows Proceedings 2004 VLDB Conference The American Architect Distributed and Parallel Systems Advances in Grid and Pervasive Computing Condor Journal Grid Services Engineering and Management Grid Technology for Maximizing Collaborative Decision Management and Support: Advancing Effective Virtual Organizations Mobile Wireless Middleware, Operating Systems, and Applications Networks for Grid Applications Grid Technologies Grid Computing Condor Dreams & Other Fictions Handbook of Research on Scalable Computing Technologies The Condor's Head Grid Resource Management Grid Computing Transactions of the American Institute of Electrical Engineers Scientific Data Management Grid Computing A Condor Brings the Sun Managed Grids and Cloud Systems in the Asia-Pacific Research Community Pattern Recognition in Bioinformatics Grid Computing in Life Science Software Reviews on File Official Gazette of the United States Patent Office Engineering; an Illustrated Weekly Journal The Southern Lumberman Scientific and Statistical Database Management Laser Spectroscopy IV Distributed Applications and Interoperable Systems

Grid computing is applying the resources of many computers in a network to a single problem at the same time Grid computing appears to be a promising trend for three reasons: (1) Its ability to make more cost-effective use of a given amount of computer resources, (2) As a way to solve problems that can't be approached without an enormous amount of computing power (3) Because it suggests that the resources of many computers can be cooperatively and perhaps synergistically harnessed and managed as a collaboration toward a common objective. A number of corporations, professional groups, university consortiums, and other groups have developed or are developing frameworks and software for managing grid computing projects. The European Community (EU) is sponsoring a project for a grid for high-energy physics, earth observation, and biology applications. In the United States, the National Technology Grid is prototyping a computational grid for infrastructure and an access grid for people. Sun Microsystems offers Grid Engine software. Described as a distributed resource management tool, Grid Engine allows engineers at companies like Sony and Synopsys to pool the computer cycles on up to 80 workstations at a time. * "the Grid" is a very hot topic generating broad interest from research and industry (e.g. IBM, Platform, Avaki, Entropia, Sun, HP) * Grid architecture enables very popular e-Science projects like the Genome project which demand global interaction and networking * In recent surveys over 50% of Chief Information Officers are expected to use Grid technology this year Grid Computing: * Features contributions from the major players in the field * Covers all aspects of grid technology from motivation to applications * Provides an extensive state-of-the-art guide in grid computing This is essential reading for researchers in Computing and Engineering, physicists, statisticians, engineers and mathematicians and IT policy makers. This book constitutes the refereed proceedings of the 4th International Conference on Grid and Pervasive Computing, GPC 2009, held in Geneva, Switzerland, in May 2009. The 42 revised full papers presented were carefully reviewed and selected from 112 submissions. The papers are organized in topical sections on grid economy, grid security, grid applications, middleware, scheduling, load balancing, pervasive computing, sensor networks, peer-to-peer as well as fault tolerance. Enabling technologies - An overview of cluster computing / Thomas Sterling / - Node

Hardware / Thomas Sterling / - Linux / Peter H. Beckman / - Network Hardware / Thomas Sterling / - Network Software / Thomas Sterling / - Setting Up clusters : installation and configuration - How fast is my beowulf? / David Bailey / - Parallel programming / - Parallel programming with MPI / William Gropp / - Advanced topics in MPI programming / William Gropp / - Parallel programming with PVM / Al Geist / - Fault-tolerant and adaptive programs with PVM / Al Geist / - Managing clusters / - Cluster workload management / James Patton Jones / - Condor : a distributed job scheduler / - Maui scheduler : A multifunction cluster scheduler / David B. Jackson / - PBS : portable batch system / James Patton Jones / - PVFS : parallel virtual file system / Walt Ligon / - Chiba city : the Argonne scalable cluster. Pilar, a young Peruvian woman who has memorized the traditions of her ancestors all the way back to the Incas, must cope with the efforts of Shining Path guerrillas and an American biologist to change her people's way of life This book constitutes the refereed proceedings of the 8th IAPR International Conference on Pattern Recognition in Bioinformatics, PRIB 2013, held in Nice, France, in June 2013. The 25 revised full papers presented were carefully reviewed and selected from 43 submissions. The papers are organized in topical sections on biomolecular networks and pathway analysis; learning, classification, and clustering; data mining and knowledge discovery; protein: structure, function, and interaction; motifs, sites, and sequence analysis. "This book presents, discusses, shares ideas, results and experiences on the recent important advances and future challenges on enabling technologies for achieving higher performance"--Provided by publisher. This book constitutes the refereed proceedings of the 12th IFIP WG 6.1 International Conference on Distributed Applications and Interoperable Systems, DAIS 2012, held in Stockholm, Sweden, in June 2012 as one of the DisCoTec 2012 events. The 12 revised full papers and 9 short papers presented were carefully reviewed and selected from 58 submissions. The papers are organized in topical sections on peer-to-peer and large scale systems; security and reliability in web, cloud, p2p, and mobile systems; wireless, mobile, and pervasive systems; multidisciplinary approaches and case studies, ranging from Grid and parallel computing to multimedia and socio-technical systems; and service-oriented computing and e-commerce. This book constitutes the refereed proceedings of the Second International Conference on Grid and Pervasive Computing, GPC 2007, held in Paris, France in May 2007. It covers all aspects of grid and pervasive computing and focuses on topics such as cluster computing, grid computing, semantic Web and semantic grid, service-oriented computing, peer-to-peer computing, mobile computing, as well as grid and pervasive related applications. Traditionally, the discipline of parallel computing has encompassed a wide range of topics ranging from machine organization all the way to applications. The Encyclopedia of Parallel Computing is likewise broad in scope, covering machine organization, programming, algorithms, and applications. Within each area, the Encyclopedia covers concepts, designs, and specific implementations. In the area of algorithms, the encyclopedia will cover (1) concepts such as cache-oblivious algorithms and systolic algorithms, (2) specific numerical and non-numerical algorithms such as parallel matrix-matrix multiplication and graph algorithms to, for example, find connected components in parallel, and (3) implementations of algorithms in the form of widely used libraries such as LAPACK. In the area of architecture, the encyclopedia will contain (1) concepts such as sequential consistency and cache coherency, (2) machine classes such as shared-memory multiprocessors and dataflow machines, and (3) specific machines such as IBM's cell processor and Intel's multicore machines. In the area of software, it will cover (1) concepts such as races and autoparallelization, and (2) designs in the form of parallel programming languages, library interfaces, and operating systems. The encyclopedia also will cover application issues emphasizing the type of parallel computation involved and the magnitude in terms of computational requirements of the applications. Each encyclopedia entry will be concise and clear and will contain references to the literature for readers wishing to study the topic of the entry in depth. The broad coverage--together with extensive pointers to the literature for in-depth study--will make the encyclopedia an invaluable reference tool for researchers, practitioners and students alike. Grid computing denotes an approach to utilize distributed resources that are not subject to centralized control. This approach fulfils computing requirements arising within the context of current high-performance

computing applications, especially in the field of computational science and engineering. This idea is analogous to an electric power network (grid), where power generators are distributed, but the users are able to access electric power without bothering about the source of energy and its location. Current grid enabling technologies consist of stand-alone architectures. A typical architecture provides middleware access to various services at different hierarchical levels. Computational grids enable the sharing, selection and aggregation of a wide variety of geographically distributed computational resources (such as supercomputers, clusters of computers, storage systems, data sources, instruments, people, etc.) and present them as a single, unified resource for solving large-scale computations and data intensive computing applications (e.g., molecular modeling for drug design, brain activity analysis, high energy physics, etc.). Grid computing is a new emerging research area aiming to promote the development and advancement of technologies that provide seamless and scalable access to wide-area distributed resources. "This reference presents a vital compendium of research detailing the latest case studies, architectures, frameworks, methodologies, and research on Grid and Cloud Computing"-- Comprehensive guides to the latest Beowulf tools and methodologies. Beowulf clusters, which exploit mass-market PC hardware and software in conjunction with cost-effective commercial network technology, are becoming the platform for many scientific, engineering, and commercial applications. With growing popularity has come growing complexity. Addressing that complexity, Beowulf Cluster Computing with Linux and Beowulf Cluster Computing with Windows provide system users and administrators with the tools they need to run the most advanced Beowulf clusters. The book is appearing in both Linux and Windows versions in order to reach the entire PC cluster community, which is divided into two distinct camps according to the node operating system. Each book consists of three stand-alone parts. The first provides an introduction to the underlying hardware technology, assembly, and configuration. The second part offers a detailed presentation of the major parallel programming libraries. The third, and largest, part describes software infrastructures and tools for managing cluster resources. This includes some of the most popular of the software packages available for distributed task scheduling, as well as tools for monitoring and administering system resources and user accounts. Approximately 75% of the material in the two books is shared, with the other 25% pertaining to the specific operating system. Most of the chapters include text specific to the operating system. The Linux volume includes a discussion of parallel file systems. Proceedings of the 30th Annual International Conference on Very Large Data Bases held in Toronto, Canada on August 31 - September 3 2004. Organized by the VLDB Endowment, VLDB is the premier international conference on database technology. Tells the story of how the California condor was saved from near-extinction, brought back from twenty-two birds in the 1980s to be more numerous today than at any time in the past century. "This book provides research into parallel & distributed computing, high performance computing, and Grid computing"--Provided by publisher. "This book presents research on building network of excellence by effectively and efficiently managing ICT-related resources using Grid technology"--Provided by publisher. Designed for senior undergraduate and first-year graduate students, Grid Computing: Techniques and Applications shows professors how to teach this subject in a practical way. Extensively classroom-tested, it covers job submission and scheduling, Grid security, Grid computing services and software tools, graphical user interfaces, workflow editors, and Grid-enabling applications. The book begins with an introduction that discusses the use of a Grid computing Web-based portal. It then examines the underlying action of job submission using a command-line interface and the use of a job scheduler. After describing both general Internet security techniques and specific security mechanisms developed for Grid computing, the author focuses on Web services technologies and how they are adopted for Grid computing. He also discusses the advantages of using a graphical user interface over a command-line interface and presents a graphical workflow editor that enables users to compose sequences of computational tasks visually using a simple drag-and-drop interface. The final chapter explains how to deploy applications on a Grid. The Grid computing platform offers much more than simply running an application at a remote site. It also enables multiple, geographically distributed computers to

collectively obtain increased speed and fault tolerance. Illustrating this kind of resource discovery, this practical text encompasses the varied and interconnected aspects of Grid computing, including how to design a system infrastructure and Grid portal. Supplemental Web Resources The author's Web site offers various instructional resources, including slides and links to software for programming assignments. Many of these assignments do not require access to a Grid platform. Instead, the author provides step-by-step instructions for installing open-source software to deploy and test Web and Grid services, a Grid computing workflow editor to design and test workflows, and a Grid computing portal to deploy portlets. The integration and convergence of state-of-the-art technologies in the grid have enabled more flexible, automatic, and complex grid services to fulfill industrial and commercial needs, from the LHC at CERN to meteorological forecasting systems.

Fundamentals of Grid Computing: Theory, Algorithms and Technologies discusses how the novel technologies The advances in wireless communication technologies and the proliferation of mobile devices have enabled the realization of intelligent environments for people to communicate with each other, interact with information-processing devices, and receive a wide range of mobile wireless services through various types of networks and systems everywhere, anytime. A key enabler of this pervasive and ubiquitous connectivity environments is the advancement of software technology in various communication sectors, ranging from communication middleware and operating systems to networking protocols and applications. The international conference series on Mobile Wireless Middleware, Operating Systems, and Applications (MOBILWARE) is dedicated to address emerging topics and challenges in various mobile wireless software-related areas. The scope of the conference includes the design, implementation, deployment, and evaluation of middleware, operating systems, and applications for computing and communications in mobile wireless systems. MOBILWARE 2010 was the third edition of this conference, which was made possible thanks to the sponsorship of ICST and Create-Net and most importantly the hard work of the TPC and reviewers. Similar to the last successful editions, we had 35 submissions from 23 different countries this year, reflecting the international interest for the conference topics. After a thorough review process, we finalized an excellent technical program including 18 regular papers and 4 short papers. List of members in v. 7-15, 17, 19-20. This book constitutes the proceedings of the 22nd International Conference on Scientific and Statistical Database Management, SSDBM 2010, held in Heidelberg, Germany in June/July 2010. The 30 long and 11 short papers presented were carefully reviewed and selected from 94 submissions. The topics covered are query processing; scientific data management and analysis; data mining; indexes and data representation; scientific workflow and provenance; and data stream processing. Researchers in the field of life sciences rely increasingly on information technology to extract and manage relevant knowledge. The complex computational and data management needs of life science research make Grid technologies an attractive support solution. However, many important issues must be addressed before the Life Science Grid becomes commonplace. The 1st International Life Science Grid Workshop (LSGRID 2004) was held in Kanazawa Japan, May 31-June 1, 2004. This workshop focused on life science applications of grid systems especially for bionetwork research and systems biology which require heterogeneous data integration from genome to phenome, mathematical modeling and simulation from molecular to population levels, and high-performance computing including parallel processing, special hardware and grid computing. Fruitful discussions took place through 18 oral presentations, including a keynote address and five invited talks, and 16 poster and demonstration presentations in the fields of grid infrastructure for life sciences, systems biology, massive data processing, databases and data grids, grid portals and pipelines for functional annotation, parallel and distributed applications, and life science grid projects. The workshop emphasized the practical aspects of grid technologies in terms of improving grid-enabled data/information/knowledge sharing, high-performance computing, and collaborative projects. There was agreement among the participants that the advancement of grid technologies for life science research requires further concerted actions and promotion of grid applications. We therefore concluded the workshop with the announcement of LSGRID 2005. The International Conference on Computational Science (ICCS 2004) held in Kraków, Poland, June 6-9,

2004, was a follow-up to the highly successful ICCS 2003 held at two locations, in Melbourne, Australia and St. Petersburg, Russia; ICCS 2002 in Amsterdam, The Netherlands; and ICCS 2001 in San Francisco, USA. As computational science is still evolving in its quest for subjects of investigation and efficient methods, ICCS 2004 was devised as a forum for scientists from mathematics and computer science, as the basic computing disciplines and application areas, interested in advanced computational methods for physics, chemistry, life sciences, engineering, arts and humanities, as well as computer system vendors and software developers. The main objective of this conference was to discuss problems and solutions in all areas, to identify new issues, to shape future directions of research, and to help users apply various advanced computational techniques. The event harvested recent developments in computational grids and next generation computing systems, tools, advanced numerical methods, data-driven systems, and novel application fields, such as complex systems, finance, econo-physics and population evolution. ISGC 2009, The International Symposium on Grid Computing was held at Academia Sinica, Taipei, Taiwan in April 2009 bringing together prestigious scientists and engineers worldwide to exchange ideas, present challenges/solutions and introduce future development in the field of Grid Computing. Managed Grids and Cloud Systems in the Asia-Pacific Research Community presents the latest achievements in grid technology including Cloud Computing. This volume also covers international projects in Grid Operation, Grid Middleware, E-Science applications, technical developments in grid operations and management, Security and Networking, Digital Library and more. The resources used to support these advances, such as volunteer grids, production managed grids, and cloud systems are discussed in detail. This book is designed for a professional audience composed of grid users, developers and researchers working in the grid computing. Advanced-level students focusing on computer science and engineering will find this book valuable as a reference or secondary text book. Grid Computing: International Symposium on Grid Computing (ISGC) 2007 is one of the most important annual events in Asia that brings together scientific contributions by world class researchers and scientists working in the Grid Computing field to exchange ideas, to present challenges, solutions and future development. The objective of this Symposium is to facilitate the information exchange as well as to explore the global collaboration and interoperation among various Grid projects. Based on the ISGC 2007, held in Taipei, Taiwan in March of 2007, this edited volume presents the latest grid solutions and research results in grid operations, grid middleware, biomedical operations, e-science applications and more. Grid Computing: International Symposium on Grid Computing (ISGC) 2007 is designed for a professional audience, composed of researchers and practitioners in academia and industry. This book is also suitable for graduate-level students in computer science. It is also one of the most important sources of Grid Computing and E-Science development in the Asia Pacific region. This volume consists of the proceedings of the 1st International Conference on Grid Services Engineering and Management (GSEM 2004) that was held in conjunction with the 5th International Conference Net. ObjectDays 2004 (NODE 2004) and the European Conference on Web Services 2004 (ECOWS 2004) in Erfurt, Germany on 27-30 September 2004. The Grid has emerged as a global platform to support on-demand virtual organizations for coordinated sharing of distributed data, applications and processes. Service orientation of the Grid also makes it a promising platform for seamless and dynamic development, integration and deployment of service-oriented applications. The application components can be discovered, composed and delivered within a Grid of services, which are loosely coupled to create dynamic business processes and agile applications spanning organizations and computing platforms. The technologies contributing to such grids of services include Web services, the semantic Web, grid computing, component software and agent technologies. The GSEM 2004 conference provided an international forum for presenting the latest theoretical and practical results in technology solutions for engineering and management of Grid services and service-oriented applications. The conference aimed at bringing together researchers and practitioners from diverse fields and interests, including Web services, the semantic Web, Grid infrastructures, software components, workflows, agent technologies and service

management, and those looking for new business and research cooperation opportunities in the area of Grid services and service-oriented applications. *Distributed and Parallel Systems: From Cluster to Grid Computing*, is an edited volume based on DAPSYS 2006, the 6th Austrian-Hungarian Workshop on Distributed and Parallel Systems, which is dedicated to all aspects of distributed and parallel computing. The workshop was held in conjunction with the 2nd Austrian Grid Symposium in Innsbruck, Austria in September 2006. This book is designed for a professional audience composed of practitioners and researchers in industry. It is also suitable for advanced-level students in computer science. *Sociometrics and Human Relationships* translates the latest academic research into practical business strategies and techniques for social network analysis. This essential new title is key reading for students and practitioners across marketing, design, sociology, psychology and the humanities, and comes with a free academic license of Condor. 'The Condor's Head' is by turns tense and erotic, incredibly funny and unbearably sad. It includes the real-life letters of William Short, the Duchess de La Rochefoucauld, known as Rosalie, and Thomas Jefferson, some never published before. It also accidentally reveals the truth about the Third President and Sally Hemings. Haslam explores the rural areas and small towns of his native region--California's Great Central Valley--in this collection of twenty-five short stories. The stories are filled with a principally masculine cast that is as culturally diverse as the West gets: a Chinese laborer, a Portuguese farmer, a Vietnamese schoolboy, a black cowboy, and an Armenian poet, just to name a few. These pieces range from traditional stories to vignettes to sketches and talks as Haslam seeks literary structures that powerfully project his characters and their experiences. The author's triumph in these stories is that, by making us care about his characters and their habitats, he allows us to care more about ourselves and our land. Grid research, rooted in distributed and high performance computing, started in mid-to-late 1990s. Soon afterwards, national and international research and development authorities realized the importance of the Grid and gave it a primary position on their research and development agenda. The Grid evolved from tackling data and compute-intensive problems, to addressing global-scale scientific projects, connecting businesses across the supply chain, and becoming a World Wide Grid integrated in our daily routine activities. This book tells the story of great potential, continued strength, and widespread international penetration of Grid computing. It overviews latest advances in the field and traces the evolution of selected Grid applications. The book highlights the international widespread coverage and unveils the future potential of the Grid. This book constitutes the thoroughly refereed post-conference proceedings of the Second International Conference on Networks for Grid Applications, GridNets 2008, held in Beijing, China in October 2008. The 19 revised full papers presented together with 4 invited presentations were carefully reviewed and selected from 37 submissions. The papers address the whole spectrum of grid networks, ranging from formal approaches for grid management to case studies in optical switching. Dealing with the volume, complexity, and diversity of data currently being generated by scientific experiments and simulations often causes scientists to waste productive time. *Scientific Data Management: Challenges, Technology, and Deployment* describes cutting-edge technologies and solutions for managing and analyzing vast amounts of data, helping scientists focus on their scientific goals. The book begins with coverage of efficient storage systems, discussing how to write and read large volumes of data without slowing the simulation, analysis, or visualization processes. It then focuses on the efficient data movement and management of storage spaces and explores emerging database systems for scientific data. The book also addresses how to best organize data for analysis purposes, how to effectively conduct searches over large datasets, how to successfully automate multistep scientific process workflows, and how to automatically collect metadata and lineage information. This book provides a comprehensive understanding of the latest techniques for managing data during scientific exploration processes, from data generation to data analysis. Enhanced by numerous detailed color images, it includes real-world examples of applications drawn from biology, ecology, geology, climatology, and more. Check out Dr. Shoshani discuss the book during an interview with International Science Grid This Week (iSGTW): <http://www.isgtw.org/?pid=1002259> Grid technology offers the potential for providing secure access

to remote services, thereby promoting scientific collaborations in an unprecedented scale. Grid Resource Management: Toward Virtual and Services Compliant Grid Computing presents a comprehensive account of the architectural issues of grid technology, such as security, data management, logging, and aggregation of services, as well as related technologies. After covering grid usages, grid systems, and the evolution of grid computing, the book discusses operational issues associated with web services and service-oriented architecture. It also explores technical and business topics relevant to data management, the development and characteristics of P2P systems, and a grid-enabled virtual file system (GRAVY) that integrates underlying heterogeneous file systems into a unified location-transparent file system of the grid. The book covers scheduling algorithms, strategies, problems, and architectures as well as workflow management systems and semantic technologies. In addition, the authors describe how to deploy scientific applications into a grid environment. They also explain grid engineering and grid service programming. Examining both data and execution management in grid computing, this book chronicles the current trend of grid developments toward a more service-oriented approach that exposes grid protocols using web services standards.

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