

# **Distributed and Parallel Systems**

CLUSTER AND GRID COMPUTING

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 **Springer**

# Distributed And Parallel Systems From Cluster To Grid Computing

**Franco Davoli, Norbert Meyer, Roberto  
Pugliese, Sandro Zappatore**



## **Distributed And Parallel Systems From Cluster To Grid Computing:**

**Distributed and Parallel Systems** Zoltan Juhasz, Peter Kacsuk, Dieter Kranzlmüller, 2005-12-31 DAPSY Austrian Hungarian Workshop on Distributed and Parallel Systems is an international conference series with biannual events dedicated to all aspects of distributed and parallel computing DAPSY started under a different name in 1992 Sopron Hungary as regional meeting of Austrian and Hungarian researchers focusing on transputer related parallel computing a hot research topic of that time A second workshop followed in 1994 Budapest Hungary As transputers became history the scope of the workshop widened to include parallel and distributed systems in general and the 1st DAPSYS in 1996 Miskolc Hungary reflected the results of these changes Distributed and Parallel Systems Cluster and Grid Computing is an edited volume based on DAPSYS 2004 the 5th Austrian Hungarian Workshop on Distributed and Parallel Systems The workshop was held in conjunction with EuroPVM MPI 2004 Budapest Hungary September 19-22 2004 Distributed and Parallel Systems Peter Kacsuk, Thomas Fahringer, Zoltan Nemeth, 2007-05-03 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 Distributed and Parallel Computing Andrzej Goscinski, 2005-09-19 This book constitutes the refereed proceedings of the 6th International Conference on Algorithms and Architectures for Parallel Processing ICA3PP 2005 held in Melbourne Australia in October 2005 The 27 revised full papers and 25 revised short papers presented were carefully reviewed and selected from 95 submissions The book covers new architectures of parallel and distributed systems new system management facilities and new application algorithms with special focus on two broad areas of parallel and distributed computing i.e. architectures algorithms and networks and systems and applications Distributed and Parallel Systems Péter Kacsuk, Dieter Kranzlmüller, Zoltan Németh, Jens Volkert, 2012-12-06 Distributed and Parallel Systems Cluster and Grid Computing is the proceedings of the fourth Austrian Hungarian Workshop on Distributed and Parallel Systems organized jointly by Johannes Kepler University Linz Austria and the MTA SZTAKI Computer and Automation Research Institute The papers in this volume cover a broad range of research topics presented in four groups The first one introduces cluster tools and techniques especially the issues of load balancing and migration Another six papers deal with grid and global computing including grid infrastructure tools applications and mobile computing The next nine papers present general questions of distributed development and applications The last four papers address a crucial issue in distributed computing fault tolerance and dependable systems This volume will be useful to researchers and scholars interested in all areas related to parallel and distributed computing systems *Distributed and Cloud Computing* Kai Hwang, Jack Dongarra, Geoffrey C. Fox, 2013-12-18

Distributed and Cloud Computing From Parallel Processing to the Internet of Things offers complete coverage of modern distributed computing technology including clusters the grid service oriented architecture massively parallel processors peer to peer networking and cloud computing It is the first modern up to date distributed systems textbook it explains how to create high performance scalable reliable systems exposing the design principles architecture and innovative applications of parallel distributed and cloud computing systems Topics covered by this book include facilitating management debugging migration and disaster recovery through virtualization clustered systems for research or ecommerce applications designing systems as web services and social networking systems using peer to peer computing The principles of cloud computing are discussed using examples from open source and commercial applications along with case studies from the leading distributed computing vendors such as Amazon Microsoft and Google Each chapter includes exercises and further reading with lecture slides and more available online This book will be ideal for students taking a distributed systems or distributed computing class as well as for professional system designers and engineers looking for a reference to the latest distributed technologies including cloud P2P and grid computing Complete coverage of modern distributed computing technology including clusters the grid service oriented architecture massively parallel processors peer to peer networking and cloud computing Includes case studies from the leading distributed computing vendors Amazon Microsoft Google and more Explains how to use virtualization to facilitate management debugging migration and disaster recovery Designed for undergraduate or graduate students taking a distributed systems course each chapter includes exercises and further reading with lecture slides and more available online

**New Horizons of Parallel and Distributed Computing** Minyi Guo, Laurence Tianruo Yang, 2006-01-27 Parallel and distributed computing is one of the foremost technologies for shaping future research and development activities in academia and industry Hyperthreading in Intel processors hypertransport links in next generation AMD processors multicore silicon in today's high end microprocessors and emerging cluster and grid computing have moved parallel distributed computing into the mainstream of computing New Horizons of Parallel and Distributed Computing is a collection of self contained chapters written by pioneering researchers to provide solutions for newly emerging problems in this field This volume will not only provide novel ideas work in progress and state of the art techniques in the field but will also stimulate future research activities in the area of parallel and distributed computing with applications New Horizons of Parallel and Distributed Computing is intended for industry researchers and developers as well as for academic researchers and advanced level students in computer science and electrical engineering A valuable reference work it is also suitable as a textbook

**High-Performance Computing** Laurence T. Yang, Minyi Guo, 2006-01-24 The state of the art of high performance computing Prominent researchers from around the world have gathered to present the state of the art techniques and innovations in high performance computing HPC including Programming models for parallel computing graph oriented programming GOP OpenMP the stages and transformation SAT approach the bulk synchronous parallel BSP

model Message Passing Interface MPI and Cilk Architectural and system support featuring the code tiling compiler technique the MigThread application level migration and checkpointing package the new prefetching scheme of atomicity a new receiver makes right data conversion method and lessons learned from applying reconfigurable computing to HPC Scheduling and resource management issues with heterogeneous systems bus saturation effects on SMPs genetic algorithms for distributed computing and novel task scheduling algorithms Clusters and grid computing design requirements grid middleware distributed virtual machines data grid services and performance boosting techniques security issues and open issues Peer to peer computing P2P including the proposed search mechanism of hybrid periodical flooding HPF and routing protocols for improved routing performance Wireless and mobile computing featuring discussions of implementing the Gateway Location Register GLR concept in 3G cellular networks maximizing network longevity and comparisons of QoS aware scatternet scheduling algorithms High performance applications including partitioners running Bag of Tasks applications on grids using low cost clusters to meet high demand applications and advanced convergent architectures and protocols High Performance Computing Paradigm and Infrastructure is an invaluable compendium for engineers IT professionals and researchers and students of computer science and applied mathematics

*Distributed and Parallel Systems* Péter Kacsuk, Gabriele Kotsis, 2012-12-06 Distributed and Parallel Systems From Instruction Parallelism to Cluster Computing is the proceedings of the third Austrian Hungarian Workshop on Distributed and Parallel Systems organized jointly by the Austrian Computer Society and the MTA SZTAKI Computer and Automation Research Institute This book contains 18 full papers and 12 short papers from 14 countries around the world including Japan Korea and Brazil The paper sessions cover a broad range of research topics in the area of parallel and distributed systems including software development environments performance evaluation architectures languages algorithms web and cluster computing This volume will be useful to researchers and scholars interested in all areas related to parallel and distributed computing systems

**Parallel and Distributed Processing and Applications** Jiannong Cao, 2004-12-02 This book constitutes the refereed proceedings of the Second International Symposium on Parallel and Distributed Processing and Applications ISPA 2004 held in Hong Kong China in December 2004 The 78 revised full papers and 38 revised short papers presented were carefully reviewed and selected from 361 submissions The papers are organized in topical sections on parallel algorithms and systems data mining and management distributed algorithms and systems fault tolerance protocols and systems sensor networks and protocols cluster systems grid applications and systems peer to peer and ad hoc networking grid scheduling and algorithms data replication and caching software engineering and testing grid protocols context aware and mobile computing distributed routing and switching protocols cluster resource scheduling and algorithms security high performance processing networking and protocols artificial intelligence systems hardware architecture and implementations high performance computing architecture and distributed systems architecture

**Advanced Parallel and Distributed**

**Computing** Yuan-Shun Dai,2007 The field of parallel and distributed computing is undergoing changes at a breathtaking pace Networked computers are now omnipresent in virtually every application from games to sophisticated space missions The increasing complexity heterogeneity largeness and dynamism of the emerging pervasive environments and associated applications are challenging the advancement of the parallel and distributed computing paradigm Many novel infrastructures have been or are being created to provide the necessary computational fabric for realising parallel and distributed applications from diverse domains New models and tools are also being proposed to evaluate and predict the quality of these complicated parallel and distributed systems Current and recent past efforts made to provide the infrastructures and models for such applications have addressed many underlying complex problems and have thus resulted in new tools and paradigms for effectively realising parallel and distributed systems This book showcases these novel tools and approaches with inputs from relevant experts Distributed and Parallel Systems (DAPSYS) Zoltán Juhász,Péter Kacsuk,Dieter Kranzlmüller,2009

**Remote Instrumentation and Virtual Laboratories** Franco Davoli,Norbert Meyer,Roberto Pugliese,Sandro Zappatore,2010-03-10 Accessing remote instrumentation worldwide is one of the goals of e Science The task of enabling the execution of complex experiments that involve the use of distributed scientific instruments must be supported by a number of different architectural domains which inter work in a coordinated fashion to provide the necessary functionality These domains embrace the physical instruments the communication network interconnecting the distributed systems the service oriented abstractions and their middleware The Grid paradigm or more generally the Service Oriented Architecture SOA viewed as a tool for the integration of distributed resources plays a significant role not only to manage computational aspects but increasingly as an aggregator of measurement instrumentation and pervasive large scale data acquisition platforms In this context the functionality of a SOA allows managing maintaining and exploiting heterogeneous instrumentation and acquisition devices in a unified way by providing standardized interfaces and common working environments to their users but the peculiar aspects of dealing with real instruments of widely different categories may add new functional requirements to this scenario On the other hand the growing transport capacity of core and access networks allows data transfer at unprecedented speed but new challenges arise from wireless access wireless sensor networks and the traversal of heterogeneous network domains The book focuses on all aspects related to the effective exploitation of remote instrumentation and to the building complex virtual laboratories on top of real devices and infrastructures These include SOA and related middleware high speed networking in support of Grid applications wireless Grids for acquisition devices and sensor networks Quality of Service QoS provisioning for real time control measurement instrumentation and methodology as well as metrology issues in distributed systems Parallel Processing and Applied Mathematics Roman Wyrzykowski,2008-05-26 This book constitutes the thoroughly refereed post conference proceedings of the 7th International Conference on Parallel Processing and Applied Mathematics PPAM 2007 held in Gdansk Poland in September 2007 The 63

revised full papers of the main conference presented together with 85 revised workshop papers were carefully reviewed and selected from over 250 initial submissions. The papers are organized in topical sections on parallel distributed architectures and mobile computing, numerical algorithms and parallel numerics, parallel and distributed non numerical algorithms, environments and tools for as well as applications of parallel distributed grid computing, evolutionary computing, meta heuristics and neural networks. The volume proceeds with the outcome of 11 workshops and minisymposia dealing with novel data formats and algorithms for dense linear algebra computations, combinatorial tools for parallel sparse matrix computations, grid applications and middleware, large scale computations on grids, models, algorithms and methodologies for grid enabled computing environments, scheduling for parallel computing, language based parallel programming, models, performance evaluation of parallel applications on large scale systems, parallel computational biology, high performance computing for engineering applications and the minisymposium on interval analysis.

**Tools and Environments for Parallel and Distributed Computing** Salim Hariri, Manish Parashar, 2004-03-01 Zug nge zur parallelen Rechentechnik. Dieses Buch behandelt ein breites Spektrum verschiedener Ans tze. Sie erhalten einen aufschlussreichen berblick ber die leistungsf higsten derzeit gebr uchlichen Tools. Fallstudien stellen besonders erfolgreiche Implementationen u a Stanford MIT vor. Im Vordergrund der Diskussion steht die Performance der L sungen. Die Autoren arbeiten am renommierten

Northeast Parallel Architectures Center. Science Gateways for Distributed Computing Infrastructures Péter Kacsuk, 2014-10-28 The book describes the science gateway building technology developed in the SCI BUS European project and its adoption and customization method by which user communities such as biologists, chemists and astrophysicists can build customized domain specific science gateways. Many aspects of the core technology are explained in detail including its workflow capability, job submission mechanism to various grids and clouds and its data transfer mechanisms among several distributed infrastructures. The book will be useful for scientific researchers and IT professionals engaged in the development of science gateways.

*Computer Aided Systems Theory - EUROCAST 2007* Roberto Moreno Díaz, Franz Pichler, Alexis Quesada Arencibia, 2007-11-16 This book constitutes the thoroughly refereed post proceedings of the 11th International Conference on Computer Aided Systems Theory EUROCAST 2007. Coverage in the 144 revised full papers presented includes formal approaches, computation and simulation in modeling biological systems, intelligent information processing, heuristic problem solving, signal processing, architectures, robotics and robotic soccer, cybercars and intelligent vehicles and artificial intelligence components.

**Distributed Network Systems** Weijia Jia, Wanlei Zhou, 2006-06-14 Both authors have taught the course of Distributed Systems for many years in the respective schools. During the teaching we feel strongly that Distributed systems have evolved from traditional LAN based distributed systems towards Internet based systems. Although there exist many excellent textbooks on this topic because of the fast development of distributed systems and network programming protocols we have difficulty in finding an appropriate textbook for the course of distributed systems with

orientation to the requirement of the undergraduate level study for today's distributed technology. Specifically from to date concepts, algorithms and models to implementations for both distributed system designs and application programming. Thus the philosophy behind this book is to integrate the concepts, algorithm designs and implementations of distributed systems based on network programming. After using several materials of other textbooks and research books we found that many texts treat the distributed systems with separation of concepts, algorithm design and network programming and it is very difficult for students to map the concepts of distributed systems to the algorithm design, prototyping and implementations. This book intends to enable readers, especially postgraduates and senior undergraduate level, to study up to date concepts, algorithms and network programming skills for building modern distributed systems. It enables students not only to master the concepts of distributed network system but also to readily use the material introduced into implementation practices.

Data Intensive Distributed Computing: Challenges and Solutions for Large-scale Information Management Kosar, Tevfik, 2012-01-31. This book focuses on the challenges of distributed systems imposed by the data intensive applications and on the different state of the art solutions proposed to overcome these challenges. Provided by publisher. **Quality of Parallel and Distributed Programs and Systems** Péter Kacsuk, Gabriele Kotsis, 2003. Six papers selected from the September 2000 Austrian Hungarian workshop present special models, metrics and tools for guaranteeing the quality of parallel and distributed software and systems, particularly supercomputers and clusters. The researchers describe a distributed debugger for use on both Windows NT and Unix platforms, performance monitoring systems, workload models for Internet based distributed systems and the performance of OpenMP and MPI on the SGI Origin 2000. The proceedings of the conference including these papers was published by Kluwer in 2000 as *Distributed and parallel systems from instruction parallelism to cluster computing*. Annotation 2004. Book News Inc, Portland, OR. booknews.com. **Handbook on Information Technology in Finance** Detlef Seese, Christof Weinhardt, Frank Schlottmann, 2008-05-27. Why do we need a handbook on Information Technology (IT) and Finance? At first because both IT as well as finance are some of the most prominent driving forces of our contemporary world. Secondly because both areas develop with a terrific speed causing an urgent need of up to date information on recent developments. Thirdly because serious applications of IT in Finance require specialists with a professional training and professional knowledge in both areas. Over the last decades the world has seen many changes in politics, economics, science and legislation. The driving forces behind many of these developments are of a technological nature. One of the key technologies with this respect is Information Technology. IT is the most prominent technology revolutionizing the industrial development from products and processes to services as well as finance which is itself one of the central pillars of modern economics. The explosive development of the Internet emphasizes the importance of IT since it is today's key factor driving global access and availability of information and allows the division of labour on an international scale, the globalization. The profound transformation of finance and the financial industry over the last twenty



years was driven by technological developments e g

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