

Debugging and Performance Tuning for Parallel Computing Systems



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Debugging And Performance Tuning For Parallel Computing Systems

Julia Schneider



Debugging And Performance Tuning For Parallel Computing Systems:

Debugging and Performance Tuning for Parallel Computing Systems Ann H. Hayes, 1996-08-13 Computer Systems Organization Performance of Systems **Parallel Program Development for Cluster Computing** José Cardoso Cunha, Péter Kacsuk, Stephen Winter, 2001 The book is divided into two parts the first one covering the concepts and methodologies and the second describing the tools and integrated environments that were developed in those projects In this way we hope that the reader will find the book useful not only concerning an identification of current trends in parallel program development but also concerning their practical illustration through concrete tools and environments **On-line Monitoring Systems and Computer Tool Interoperability** Thomas Ludwig, 2003 Ludwig Institut für Informatik Ruprecht Karls Universität Heidelberg Germany and Miller computer science U of Wisconsin US present five papers examining the construction and methodology of tools for debugging and performance analysis in parallel programs After a review of the past decade's work in debuggers and performance analyzers papers look at a tool infrastructure an operational tool environment for multi thread and multi process debugging and execution visualization multi execution performance tuning and the specification of performance properties of parallel applications using compound events Annotation 2004 Book News Inc Portland OR booknews.com *Performance Evaluation, Prediction and Visualization of Parallel Systems* Xingfu Wu, 2012-12-06 Performance Evaluation Prediction and Visualization in Parallel Systems presents a comprehensive and systematic discussion of theoretic methods techniques and tools for performance evaluation prediction and visualization of parallel systems Chapter 1 gives a short overview of performance degradation of parallel systems and presents a general discussion on the importance of performance evaluation prediction and visualization of parallel systems Chapter 2 analyzes and defines several kinds of serial and parallel runtime points out some of the weaknesses of parallel speedup metrics and discusses how to improve and generalize them Chapter 3 describes formal definitions of scalability addresses the basic metrics affecting the scalability of parallel systems discusses scalability of parallel systems from three aspects parallel architecture parallel algorithm and parallel algorithm architecture combinations and analyzes the relations of scalability and speedup Chapter 4 discusses the methodology of performance measurement describes the benchmark oriented performance test and analysis and how to measure speedup and scalability in practice Chapter 5 analyzes the difficulties in performance prediction discusses application oriented and architecture oriented performance prediction and how to predict speedup and scalability in practice Chapter 6 discusses performance visualization techniques and tools for parallel systems from three stages performance data collection performance data filtering and performance data visualization and classifies the existing performance visualization tools Chapter 7 describes parallel compiling based search based and knowledge based performance debugging which assists programmers to optimize the strategy or algorithm in their parallel programs and presents visual programming based performance debugging to help programmers identify the location and cause of the

performance problem It also provides concrete suggestions on how to modify their parallel program to improve the performance Chapter 8 gives an overview of current interconnection networks for parallel systems analyzes the scalability of interconnection networks and discusses how to measure and improve network performances Performance Evaluation Prediction and Visualization in Parallel Systems serves as an excellent reference for researchers and may be used as a text for advanced courses on the topic

Human-Computer Interaction Steve Howard, Judy Hammond, Gitte Lindgaard, 2013-06-05 The theme of the 1997 INTERACT conference Discovering New Worlds of HCI signals major changes that are taking place with the expansion of new technologies into fresh areas of work and leisure throughout the world and new pervasive powerful systems based on multimedia and the internet HCI has a vital role to play in these new worlds to ensure that people using the new technologies are empowered rather than subjugated to the technology that they increasingly have to use In addition outcomes from HCI research studies over the past 20 years are now finding their way into many organisations and helping to improve and enhance work practices These factors have strongly influenced the INTERACT 97 Committee when creating the conference programme with the result that besides the more traditional HCI research and education focus found in previous INTERACT conferences one strand of the 1997 conference has been devoted to industry and another to multimedia The growth in the IFIP TC13 committee itself reflects the expansion of HCI into new worlds Membership of IFIP TC13 has risen to now include representatives of 24 IFIP member country societies from many parts of the world In 1997 IFIP TC13 breaks new ground by holding its sixth INTERACT conference in the Asia Pacific region This is a significant departure from previous INTERACT conferences that were all held in Europe and is especially important for the Asia Pacific region as HCI expands beyond its traditional base

Proceedings of the ACM SIGPLAN 1995 Workshop on Languages, Compilers, and Tools for Real-time Systems, La Jolla, CA, June 21-22, 1995, 1995

Proceedings of the 1996 ICPP Workshop on Challenges for Parallel Processing, August 12, 1996 Howard Jay Siegel, 1996 The proceedings of the August 1996 workshop are contained in four volumes v 1 Architecture v 2 Algorithms and Applications v 3 Software and the fourth volume the proceedings of a workshop connected with the conference Challenges for Parallel Processing A total of 270 papers are present

Instrumentation System Design, Modeling, and Evaluation Abdul Waheed, 1997

Parallel and Distributed Processing, 1999

Scientific and Technical Aerospace Reports, 1995 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Parallel Computing Albert Y. Zomaya, 1996 A broad overview of some of the main research issues trends and developing applications in the parallel computing community is presented in 24 contributed chapters from some of the leading authorities in the field

Environments and Tools for Parallel Scientific Computing J. J. Dongarra, Bernard Tourancheau, 1993 Evaluates the state of the art and future trends in software for parallel computer programmers Topics covered include visualization tools

for performance debugging studies of the behaviour of parallel program execution and programming tools **Proceedings of the ... Annual Hawaii International Conference on System Sciences : [HICSS]. 28. [held in Wailea, Hawaii on January 3 - 6, 1995]. - Vol. 5. Biotechnology Computing** Bruce D. Shriver, Hesham El-Rewini, Lawrence Hunter, 1995

Proceedings Parallel Computing **Вычислительные Машины И Искусственный Интеллект** ,2000 Proceedings [of The] 18th International Conference on Distributed Computing Systems Michael P. Papazoglou, 1998 This collection of papers from the ICDCS conference focus on distributed computing real time systems It covers topics such as real time communications retrieval and caching of distributed information fault tolerant systems and consistency and load balancing for Web applications **Conference Proceedings** ,2000 Sci-tech News ,2003 COMPSAC 91 ,1991 System Architecture and Integration Euromicro. Conference, 1994 Euromicro 94 has the theme System Architecture and Integration The proceedings contain two keynote speeches The Design of Fault Tolerant Real Time Systems by H Kopetz and A Theory of Engineering Design by C A R Hoare and 87 technical papers in sessions including design and optimization database retrieval techniques mapping to parallel systems VLSI high level synthesis object oriented techniques VLSI testing and testability special architectures protocols tools for VLSI design specification and design dedicated devices expert and knowledge based systems parallel architectures application of mathematical models using distributed systems neural nets FSM synthesis and fault tolerance in parallel systems No index Annotation copyright by Book News Inc Portland OR **Proceedings** ,1990

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