

Parallel Computing in Ada: An Overview and Critique

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Abstract. The aim of this paper is to present the basic issues related to the use of Ada in parallel computing. It is argued that there exists a gap between the most popular area of parallel computing research, scientific computing, and the interests of Ada community. A number of new research directions and curricular changes are proposed.
Keywords: Ada, parallel computing, efficiency, performance, experimental studies

1 Introduction

Ada'83 [1] was created as a programming language with a particular purpose. This purpose was very well summarized by Kok [13]:

"The language Ada was primarily designed for the production of large portions of readable, modular, portable, and maintainable software for real-time applications" (p. 100)

Bearing this in mind, one can expect that there exist a number of constructs in the language that were designed to support these goals. When Ada was being designed, only the first glimpses of realistic parallel computing appeared on the horizon and parallel computers (as we know them now) existed only in minds of their future creators and in very few university and government laboratories. This explains in part why no broad range support for parallel computing was introduced into the language definition. It should be pointed out, however, that since the language was supposed to address the design of software for real-time systems some of the constructs in the language can support parallel computing. These tools are the concept of a task (allowing the separation of the threads of execution into independent units) and the mechanisms of rendezvous that supports the communication of these independently executing units and can also work as a very powerful synchronization mechanism ([13], p. 101)

Since the original Ada 83 [1] was introduced, a large number of changes in computing, in general, have occurred. The computer architectures have evolved in an extremely rapid fashion, diverging into vector computers, SIMD (single instruction multiple data) parallel computers, as well as two models of MIMD (multiple instruction multiple data) computers: shared memory and message passing. For these computers, the initial area of applications were large computationally intensive mathematical problems. Even today, computational mathematics (understood very broadly) is the primary area where parallel computers are used (followed by the use of parallel computers in database applications). Interestingly enough, Ada is not the language in which the software for these computationally intensive mathematical problems is written: the two leading languages in this area are Fortran and C – even though their definitions provide absolutely

Parallel Processing And Ada

Eduard L Lafferty



Parallel Processing And Ada:

Building Parallel, Embedded, and Real-Time Applications with Ada John W. McCormick, Frank Singhoff, Jérôme Hugues, 2011-04-07 The arrival and popularity of multi core processors has sparked a renewed interest in the development of parallel programs Similarly the availability of low cost microprocessors and sensors has generated a great interest in embedded real time programs This book provides students and programmers whose backgrounds are in traditional sequential programming with the opportunity to expand their capabilities into parallel embedded real time and distributed computing It also addresses the theoretical foundation of real time scheduling analysis focusing on theory that is useful for actual applications Written by award winning educators at a level suitable for undergraduates and beginning graduate students this book is the first truly entry level textbook in the subject Complete examples allow readers to understand the context in which a new concept is used and enable them to build and run the examples make changes and observe the results

Parallel Computing Eduard L Lafferty, 2012-12-02 **Parallel Computing** **Parallel Processing for Scientific Computing** G. Rodrigue, Society for Industrial and Applied Mathematics, 1989-01-01 **Mathematics of Computing Parallelism**

Handbook of Parallel Computing and Statistics Erricos John Kontoghiorghes, 2005-12-21 Technological improvements continue to push back the frontier of processor speed in modern computers Unfortunately the computational intensity demanded by modern research problems grows even faster Parallel computing has emerged as the most successful bridge to this computational gap and many popular solutions have emerged based on its concepts Parallel Processing from Applications to Systems Dan I. Moldovan, 2014-06-28 This text provides one of the broadest presentations of parallel processing available including the structure of parallel processors and parallel algorithms The emphasis is on mapping algorithms to highly parallel computers with extensive coverage of array and multiprocessor architectures Early chapters provide insightful coverage on the analysis of parallel algorithms and program transformations effectively integrating a variety of material previously scattered throughout the literature Theory and practice are well balanced across diverse topics in this concise presentation For exceptional clarity and comprehension the author presents complex material in geometric graphs as well as algebraic notation Each chapter includes well chosen examples tables summarizing related key concepts and definitions and a broad range of worked exercises Overview of common hardware and theoretical models including algorithm characteristics and impediments to fast performance Analysis of data dependencies and inherent parallelism through program examples building from simple to complex Graphic and explanatory coverage of program transformations Easy to follow presentation of parallel processor structures and interconnection networks including parallelizing and restructuring compilers Parallel synchronization methods and types of parallel operating systems Detailed descriptions of hypercube systems Specialized chapters on dataflow and on AI architectures Programming and Problem Solving with ADA 95 Nell B. Dale, Chip Weems, John W. McCormick, 2000 Programming and Problem Solving with Ada 95 provides a solid

introduction to programming while introducing the capabilities of Ada 95 and its syntax without overwhelming the student. The book focuses on the development of good programming habits. This text offers superior pedagogy that has long defined computer science education including problem solving case studies testing and debugging sections quick checks exam preparation programming warm up exercises and programming problems. The extensive coverage of material in such a student friendly resource means that more rigor more theory greater use of abstraction and modeling and the earlier application of software engineering principles can be employed. Parallel Processing and ADA Yehuda Wallach, 1991

High Performance Computing and Communications Jack Dongarra, Laurence T. Yang, Omer F. Rana, Beniamino Di Martino, 2005-09-12. This book constitutes the refereed proceedings of the First International Conference on High Performance Computing and Communications HPCC 2005 held in Sorrento Italy in September 2005. The 76 revised full papers and 44 revised short papers presented were carefully reviewed and selected from 273 submissions. The papers are organized in topical sections on network protocols routing and algorithms languages and compilers for HPC parallel and distributed system architectures embedded systems parallel and distributed algorithms wireless and mobile computing Web services and Internet computing peer to peer computing grid and cluster computing reliability fault tolerance and security performance evaluation and measurement tools and environments for software development distributed systems and applications high performance scientific and engineering computing database applications and data mining HPSRF pervasive computing and communications and LMS. *Discovering Ada's World* Pasquale De Marco, Are you ready to embark on a journey into the world of Ada? *Discovering Ada's World* is your ultimate guide to understanding and mastering the Ada programming language. Whether you are a seasoned programmer or a beginner eager to learn a new language, this book will equip you with the knowledge and skills to develop reliable efficient and safe software. In this comprehensive guide we will explore the rich history powerful features and practical applications of Ada. Named after Ada Lovelace the world's first computer programmer, Ada has evolved over the years to become a versatile and robust language. Originally designed for safety critical and high integrity systems, Ada has found its way into various domains including aerospace defense embedded systems and scientific computing. *Discovering Ada's World* takes you on a step by step journey through the intricacies of Ada. Starting with an introduction to its origins and its impact on programming languages, we will dive deep into the language's syntax semantics and unique features. Each chapter provides a comprehensive exploration of a specific topic accompanied by practical examples and insights from industry experts. Throughout the book you will learn about object oriented programming in Ada concurrency and real time programming software engineering practices and the application of Ada in different domains. By the end of this guide you will have a solid understanding of Ada and the ability to develop reliable and efficient software solutions. What sets *Discovering Ada's World* apart is its emphasis on readability maintainability and safety. Ada's design principles make it an ideal choice for critical systems where reliability is paramount. By embracing Ada's philosophy

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Software for Computer Control 1986 D. Florian,V. Haase,2014-05-23 This volume studies the advances of software for computers their development applications and management Topics covered include software project management real time languages and their uses and computer aided design techniques The book also discusses how far artificial intelligence is integrated with business and industry to give a complete overview of the role of computer systems today

The Implementation of Parallel Processing in the ADA Language System David Pan,1982

Scientific and Technical Aerospace Reports ,1995 **ESD** ,1988 *Cities and Their Vital Systems* Advisory Committee on Technology and Society,1989 *Cities and Their Vital Systems* asks basic questions about the longevity utility and nature of urban infrastructures analyzes how they grow interact and change and asks how when and at what cost they should be replaced Among the topics discussed are problems arising from increasing air travel and airport congestion the adequacy of water supplies and waste treatment the impact of new technologies on construction urban real estate values and the field of telematics the combination of computers and telecommunications that makes money machines and national newspapers possible

Grid Application Systems Design April J. Wells,2007-11-28 Grid computing is an emerging technology designed for high powered applications Grid Application Systems Design shows how to unleash the high performance of Grid technology It begins by delving into the history and theory of grid computing providing background on the concepts terminology and issues surrounding it The book then examine

2010 ADA Standards for Accessible Design Department Justice,2014-10-09 a Design and construction 1 Each facility or part of a facility constructed by on behalf of or for the use of a public entity shall be designed and constructed in such manner that the facility or part of the facility is readily accessible to and usable by individuals with disabilities if the construction was commenced after January 26 1992 2 Exception for structural impracticability i Full compliance with the requirements of this section is not required where a public entity can demonstrate that it is structurally impracticable to meet the requirements Full compliance will be considered structurally impracticable only in those rare circumstances when the unique characteristics of terrain prevent the incorporation of accessibility features ii If full compliance with this section would be structurally impracticable compliance with this section is required to the extent that it is not structurally impracticable In that case any portion of the facility that can be made accessible shall be made accessible to the extent that it is not structurally impracticable iii If providing accessibility in conformance with this section to individuals with certain disabilities e g those who use wheelchairs would be structurally impracticable accessibility shall nonetheless be ensured to persons with other types of disabilities e g those who

use crutches or who have sight hearing or mental impairments in accordance with this section **NASA Information Sciences and Human Factors Program Annual Report, 1989** United States. National Aeronautics and Space Administration. Information Sciences and Human Factors Division, 1990 *NASA Technical Memorandum*, 1990 NASA Information Sciences and Human Factors Program Lee Holcomb, 1991 **Use of Services for Family Planning and Infertility, United States, 1982** Gerry E. Hendershot, Marjorie C. Horn, William D. Mosher, 1988 The 1982 statistics on the use of family planning and infertility services presented in this report are preliminary results from Cycle III of the National Survey of Family Growth NSFG conducted by the National Center for Health Statistics Data were collected through personal interviews with a multistage area probability sample of 7969 women aged 15 44 A detailed series of questions was asked to obtain relatively complete estimates of the extent and type of family planning services received Statistics on family planning services are limited to women who were able to conceive 3 years before the interview date Overall 79% of currently married nonsterile women reported using some type of family planning service during the previous 3 years There were no statistically significant differences between white 79% black 75% or Hispanic 77% wives or between the 2 income groups The 1982 survey questions were more comprehensive than those of earlier cycles of the survey The annual rate of visits for family planning services in 1982 was 1077 visits 1000 women Teenagers had the highest annual visit rate 1581 1000 of any age group for all sources of family planning services combined Visit rates declined sharply with age from 1447 at ages 15 24 to 479 at ages 35 44 Similar declines with age also were found in the visit rates for white and black women separately Nevertheless the annual visit rate for black women 1334 1000 was significantly higher than that for white women 1033 The highest overall visit rate was for black women 15 19 years of age 1867 1000 Nearly 2 3 of all family planning visits were to private medical sources Teenagers of all races had higher family planning service visit rates to clinics than to private medical sources as did black women age 15 24 White women age 20 and older had higher visit rates to private medical services than to clinics Never married women had higher visit rates to clinics than currently or formerly married women Data were also collected in 1982 on use of medical services for infertility by women who had difficulty in conceiving or carrying a pregnancy to term About 1 million ever married women had 1 or more infertility visits in the 12 months before the interview During the 3 years before interview about 1 9 million women had infertility visits For all ever married women as well as for white and black women separately infertility services were more likely to be secured from private medical sources than from clinics The survey design reliability of the estimates and the terms used are explained in the technical notes

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