A. Beaumont G. Gupta (Eds.)

Parallel Execution
of Logic Programs

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Proceedings

Parallel Execution Of Logic Programs

John S. Conery

Parallel Execution Of Logic Programs:

    Parallel Execution of Logic Programs John S. Conery,2012-12-06 This book is an updated version of my Ph D dissertation The AND OR Process Model for Parallel Interpretation of Logic Programs The three years since that paper was finished or so I thought then have seen quite a bit of work in the area of parallel execution models and programming languages for logic programs A quick glance at the bibliography here shows roughly 50 papers on these topics 40 of which were published after 1983 The main difference between the book and the dissertation is the updated survey of related work One of the appendices in the dissertation was an overview of a Prolog implementation of an interpreter based on the AND OR Process Model a simulator I used to get some preliminary measurements of parallelism in logic programs In the last three years I have been involved with three other implementations One was written in C and is now being installed on a small multiprocessor at the University of Oregon Most of the programming of this interpreter was done by Nitin More under my direction for his M S project The other two one written in Multilisp and the other in Modula 2 are more limited intended to test ideas about implementing specific aspects of the model Instead of an appendix describing one interpreter this book has more detail about implementation included in Chapters 5 through 7 based on a combination of ideas from the four interpreters   **Parallel Execution of Logic Programs** Anthony Beaumont,Gopal Gupta,1991-12-11 Logic programming refers to execution of programs written in Horn logic Among the advantages of this style of programming are its simple declarativeand procedural semantics high expressive power and inherent nondeterminism The papers included in this volume were presented at the Workshop on Parallel Logic Programming held in Paris on June 24 1991 as part of the 8th International Conference on Logic Programming The papers represent the state of the art in parallel logic programming and report the current research in this area including many new results The three essential issues in parallel execution of logic programs which the papers address are Which form s of parallelism or parallelism and parallelism stream parallelism data parallelism etc will be exploited Will parallelism be explicitly programmed by programmers or will it be exploited implicitly without their help Which target parallel architecture will the logic program s run on   *Parallel Execution of Logic Programs* Anthony Beaumont,1991-12-11 Logic programming refers to execution of programs written in Horn logic Among the advantages of this style of programming are its simple declarativeand procedural semantics high expressive power and inherent nondeterminism The papers included in this volume were presented at the Workshop on Parallel Logic Programming held in Paris on June 24 1991 as part of the 8th International Conference on Logic Programming The papers represent the state of the art in parallel logic programming and report the current research in this area including many new results The three essential issues in parallel execution of logic programs which the papers address are Which form s of parallelism or parallelism and parallelism stream parallelism data parallelism etc will be exploited Will parallelism be explicitly programmed by programmers or will it be exploited implicitly without their help Which target parallel architecture will the

logic program s run on   Combined And-Or Parallel Execution of Logic Programs Gopal Gupta,Bharat Jayaraman,NORTH CAROLINA UNIV AT CHAPEL HILL DEPT OF COMPUTER SCIENCE.,1988 A number of approaches have recently been proposed for the parallel execution of logic programming languages but most of them deal with either or parallelism or and parallelism but not both This paper describes a high level design for efficiently supporting both and parallelism and or parallelism Our approach is based on the binding arrays method for or parallelism and the RAP method for and parallelism Extensions to the binding arrays method are proposed in order to achieve constant access time to variables in the presence of and parallelism The RAP Restricted And Parallelism method becomes simplified because backtracking is unnecessary in the presence of or parallelism The author s approach has the added effect of eliminating redundant computations when goals exhibit both and and or parallelism The paper first briefly describes the basic issues in pure and parallelism and or parallelism states desirable criteria for their implementation with respect to variable access task creation and switching and then describes the combined and or implementation   **Partitioning and Scheduling Parallel Programs for Multiprocessors** Vivek Sarkar,1989 This book is one of the first to address the problem of forming useful parallelism from potential parallelism and to provide a general solution The book presents two approaches to automatic partitioning and scheduling so that the same parallel program can be made to execute efficiently on widely different multiprocessors The first approach is based on a macro dataflow model in which the program is partitioned into tasks at compile time and the tasks are scheduled on processors at run time The second approach is based on a compile time scheduling model where both the partitioning and scheduling are performed at compile time Both approaches have been implemented in partition programs written in the single assignment language SISAL The inputs to the partitioning and scheduling algorithms are a graphical representation of the parallel program and a list of parameters describing the target multiprocessor Execution profile information is used to derive compile time estimates of execution times and data sizes in the program Both the macro dataflow and compile time scheduling problems are expressed as optimization problems and are shown to be NP complete in the strong sense Efficient approximation algorithms for these problems are presented Finally the effectiveness of the partitioning and scheduling algorithms is studied by multiprocessor simulations of various SISAL benchmark programs for different target multiprocessor parameters Vivek Sarkar is a Member of Research Staff at the IBM T J Watson Research Center Partitioning and Scheduling Parallel Programs for Multiprocessing is included in the series Research Monographs in Parallel and Distributed Computing Copublished with Pitman Publishing   Parallel and Constraint Logic Programming Ioannis Vlahavas,Panagiotis Tsarchopoulos,Ilias Sakellariou,2012-12-06 Constraint Logic Programming CLP an area of extreme research interest in recent years extends the semantics of Prolog in such a way that the combinatorial explosion a characteristic of most problems in the field of Artificial Intelligence can be tackled efficiently By employing solvers dedicated to each domain instead of the unification algorithm CLP drastically reduces the search space of the problem which leads to

increased efficiency in the execution of logic programs CLP offers the possibility of solving complex combinatorial problems in an efficient way and at the same time maintains the advantages offered by the declarativeness of logic programming The aim of this book is to present parallel and constraint logic programming offering a basic understanding of the two fields to the reader new to the area The first part of the book gives an introduction to the fundamental aspects of conventional logic programming which is necessary for understanding the parts that follow The second part includes an introduction to parallel logic programming architectures and implementations proposed in the area Finally the third part presents the principles of constraint logic programming The last two parts also include descriptions of the supporting facilities for the two paradigms in two popular systems ECLIPSe and SICStus These platforms have been selected mainly because they offer both parallel and constraint features Annotated and explained examples are also included in the relevant parts offering a valuable guide and a first practical experience to the reader Finally applications of the covered paradigms are presented The authors felt that a book of this kind should provide some theoretical background necessary for the understanding of the covered logic programming paradigms and a quick start for the reader interested in writing parallel and constraint logic programming programs However it is outside the scope of this book to provide a deep theoretical background of the two areas In that sense this book is addressed to a public interested in obtaining a knowledge of the domain without spending the time and effort to understand the extensive theoretical work done in the field namely postgraduate and advanced undergraduate students in the area of logic programming This book fills a gap in the current bibliography since there is no comprehensive book of this level that covers the areas of conventional parallel and constraint logic programming Parallel and Constraint Logic Programming An Introduction to Logic Parallelism and Constraints is appropriate for an advanced level course on Logic Programming or Constraints and as a reference for practitioners and researchers in industry *EURO-PAR '95: Parallel Processing* Seif Haridi,Khayri Ali,Peter Magnusson,1995 This book presents the proceedings of the First International EURO PAR Conference on Parallel Processing held in Stockholm Sweden in August 1995 EURO PAR is the merger of the former PARLE and CONPAR VAPP conference series the aim of this merger is to create the premier annual scientific conference on parallel processing in Europe The book presents 50 full revised research papers and 11 posters selected from a total of 196 submissions on the basis of 582 reviews The scope of the contributions spans the full spectrum of parallel processing ranging from theory over design to application thus the volume is a must for anybody interested in the scientific aspects of parallel processing or its advanced applications **The Implementation of an Algorithm for Parallel Execution of Logic Programs** Kaipeng Qi,1994 **Parallel Processing and Parallel Algorithms** Seyed H Roosta,2012-12-06 Motivation It is now possible to build powerful single processor and multiprocessor systems and use them efficiently for data processing which has seen an explosive ex pansion in many areas of computer science and engineering One approach to meeting the performance requirements of the applications has been to utilize the most powerful single

processor system that is available When such a system does not provide the performance requirements pipelined and parallel process ing structures can be employed The concept of parallel processing is a depar ture from sequential processing In sequential computation one processor is in volved and performs one operation at a time On the other hand in parallel computation several processors cooperate to solve a problem which reduces computing time because several operations can be carried out simultaneously Using several processors that work together on a given computation illustrates a new paradigm in computer problem solving which is completely different from sequential processing From the practical point of view this provides sufficient justification to investigate the concept of parallel processing and related issues such as parallel algorithms Parallel processing involves utilizing several factors such as parallel architectures parallel algorithms parallel programming lan guages and performance analysis which are strongly interreled In general four steps are involved in performing a computational problem in parallel The first step is to understand the nature of computations in the specific application domain *Parallel Computing and Transputer Applications* Mateo Valero,1992 Mathematics of Computing Parallelism **Logic Programming** David S. Warren,1993 The Tenth International Conference on Logic Programming sponsored by the Association for Logic Programming is a major forum for presentations of research applications and implementations in this important area of computer science Logic programming is one of the most promising steps toward declarative programming and forms the theoretical basis of the programming language Prolog and it svarious extensions Logic programming is also fundamental to work in artificial intelligence where it has been used for nonmonotonic and commonsense reasoning expert systems implementation deductive databases and applications such as computer aided manufacturing David S Warren is Professor of Computer Science at the State University of New York Stony Brook Topics covered Theory and Foundations Programming Methodologies and Tools Meta and Higher order Programming Parallelism Concurrency Deductive Databases Implementations and Architectures Applications Artificial Intelligence Constraints Partial Deduction Bottom Up Evaluation Compilation Techniques Euro-Par'97 Parallel Processing Christian Lengauer,Martin Griebl,Sergei Gorlatch,2005-11-23 This book constitutes the refereed proceedings of the Third International Euro Par Conference held in Passau Germany in August 1997 The 178 revised papers presented were selected from more than 300 submissions on the basis of 1101 reviews The papers are organized in accordance with the conference workshop structure in tracks on support tools and environments routing and communication automatic parallelization parallel and distributed algorithms programming languages programming models and methods numerical algorithms parallel architectures HPC applications scheduling and load balancing performance evaluation instruction level parallelism database systems symbolic computation real time systems and an ESPRIT workshop **Parallel Execution of Logic Programs** George Angelos Papadopoulos,1987* Non-deterministic Concurrent Logic Programming in Pandora Reem Bahgat,1993 This monograph is the first comprehensive study of the design application and implementation of Pandora a new parallel logic programming

language Pandora combines stream and parallelism with don t know non determinism in a unified and efficient manner As a result it provides a programming paradigm of non deterministic concurrent communicating processes which opens up interesting application areas that cannot conveniently be expressed in existing logic programming languages The author describes the use of Pandora for constraint programming solving resource allocation problems heuristic search and distributed discrete event simulation The final chapters describe in detail the implementation of Pandora on single as well as multi processor architectures The volume is aimed at the community of logic programming students and professionals as well as researchers and professionals in artificial intelligence It will also be of great interest to researchers in programming language design and parallel processing   *Parallelization in Inference Systems* Bertram Fronhöfer,Graham Wrightson,1992-04-22 This volume contains the proceedings of an international workshop on parallelism in inference systems held in Germany in December 1990 The topicof the workshop is still rather young and several papers in the book are overview articles intended to provide a first orientation toward some of the more intensively investigated subtopics The main part of the book is a compilation of research papers on parallelization in special domains ofinference such as rewriting automatic reasoning logic programming andconnectionist inference Appended to the book is a collection of short project summaries received in response to a worldwide email call The book is intended primarily for researchers working on inference systems who are interested in parallelizing their systems   **Parallel Logic Programming in PARLOG** Steve Gregory,1987 PARLOG is a logic programming language designed for efficient implementation on parallel machines It supports a declarative style of programming combined with an execution mechanism that can exploit the parallel architectures which are already available This book is a comprehensive study of the design application and implementation of PARLOG   **An Experimental Study of Parallel Execution of Logic Programs** Jakob W. Krog,1985   **Euro-Par 2004 Parallel Processing** Marco Danelutto,Domenico Laforenza,Marco Vanneschi,2004-08-19 This book constitutes the refereed proceedings of the 10th International Conference on Parallel Computing Euro Par 2004 held in Pisa Italy in August September 2004 The 122 revised papers presented together with 3 invited papers were carefully reviewed and selected from 352 submissions The papers are organized in topical sections on support tools and environments performance evaluation scheduling and load balancing compilers and high performance parallel and distributed databases grid and cluster computing applications on high performance clusters parallel computer architecture and ILP distributed systems and algorithms parallel programming numerical algorithms high performance multimedia theory and algorithms for parallel computing routing and communication in interconnection networks mobile computing integrated problem solving environments high performance bioinformatics and peer to peer and Web computing   **Multiprocessor Execution of Logic Programs** Gopal Gupta,2012-12-06 Multiprocessor Execution of Logic Programs addresses the problem of efficient implementation of logic programming languages specifically Prolog on multiprocessor architectures The approaches and

implementations developed attempt to take full advantage of sequential implementation technology developed for Prolog such as the WAM while exploiting all forms of control parallelism present in logic programs namely or parallelism independent and parallelism and dependent and parallelism Coverage includes a thorough survey of parallel implementation techniques and parallel systems developed for Prolog Multiprocessor Execution of Logic Programs is recommended for people implementing parallel logic programming systems parallel symbolic systems parallel AI systems and parallel theorem proving systems It will also be useful to people who wish to learn about the implementation of parallel logic programming systems   **A Formal Model for Or-Parallel Execution of Logic Programs** Andrzej Ciepielewski,Seif Haridi,

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