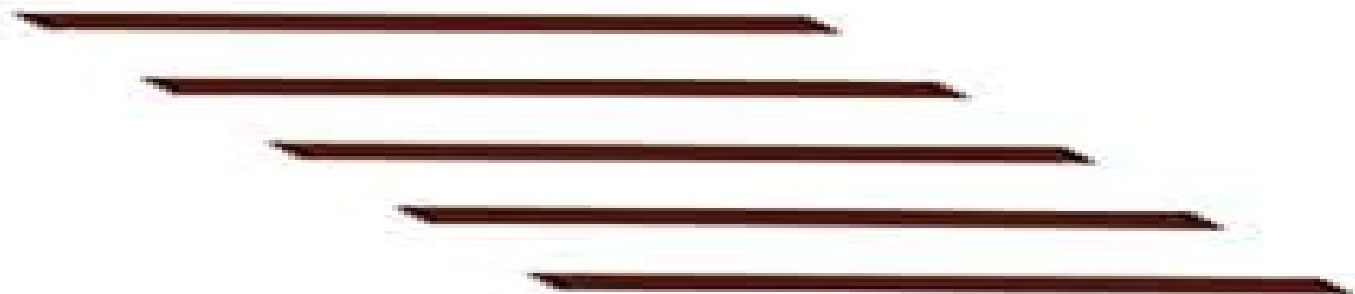


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# Parallel Execution of Logic Programs

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John S. Conery



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# Parallel Execution Of Logic Programs

**Kaipeng Qi**



## **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 declarative and 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 forms 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 programs 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 declarative and 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 forms 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 programs 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 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 *The Implementation of an Algorithm for Parallel Execution of Logic Programs* Kaipeng Qi,1994 *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 **An Experimental Study of Parallel Execution of Logic Programs** Jakob W. Krog,1985 **Parallel Execution of Logic Programs** George Angelos Papadopoulos,1987\* **AND-parallel Execution of Logic Programs on a Shared Memory Multiprocessor: a Summary of Results** University of Texas at Austin. Artificial Intelligence Laboratory,University of Texas at Austin. Dept. of Computer Sciences,Yow-Jian Lin,Vipin Kumar,1988 **Formal Models for Or-parallel Execution of Logic Programs** A. Ciepielewski,S. Haridi,1983 Parallel Algorithms for Machine Intelligence and Vision Vipin Kumar,P.S. Gopalakrishnan,Laveen N. Kanal,2012-12-06 Recent research results in the area of parallel algorithms for problem solving search natural language parsing and computer vision are brought together in this book The research reported demonstrates that substantial parallelism can be exploited in various machine intelligence and vision problems The chapter authors are prominent researchers actively involved in the study of parallel algorithms for machine intelligence and vision Extensive experimental studies are presented that will help the reader in assessing the usefulness of an approach to a specific problem Intended for students and researchers actively involved in parallel algorithms design and in machine intelligence and vision this book will serve as a valuable reference work as well as an introduction to several research directions in these areas A Formal Model for Or-Parallel Execution of Logic Programs Andrzej Ciepielewski,Seif Haridi, *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 expansion 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 processing structures can be employed The concept of parallel processing is a departure from sequential processing In sequential computation one processor is involved 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 languages and performance analysis which are strongly interrelated 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

#### **Task Scheduling for Parallel Execution of Logic Programs**

Zheng Lin, 1992 Evidence obtained supports the conclusion that a large scale multiprocessor can be utilized so efficiently by a parallel logic programming system given an efficient task scheduling mechanism

#### **Consistent First Solution**

**Speedups in OR-parallel Execution of Logic Programs** V. A. Saletore, Balkrishna Ramkumar, University of Illinois at Urbana-Champaign. Department of Computer Science, Laxmikant Vasudeo Kalé, 1990 In addition the total number of nodes expanded during parallel search is kept very close to that in a sequential depth first search We describe a technique called delayed release to accomplish this This is done by assigning priorities to subgoals that need to be evaluated and initially exploring one branch at each OR node in the search tree The unexplored OR alternatives are released in a delayed manner We present performance data on large OR parallel benchmark programs The data demonstrates consistent linear speedups to first solution and the effectiveness of the scheme in reducing redundant work with efficient use of memory

#### **Programming Languages: Implementations, Logics, and Programs** Hugh Glaser, Peter Hartel, Herbert

Kuchen, 1997-08-13 This volume constitutes the refereed proceedings of the 9th International Symposium on Programming Languages Implementations Logics and Programs PLILP 97 held in Southampton UK in September 1997 including a special track on Declarative Programming in Education The volume presents 25 revised full papers selected from 68 submissions Also included are one invited paper and three posters The papers are devoted to exploring the relation between implementation techniques the logic of the languages and the use of the languages in constructing real programs Topics of interest include implementation of declarative concepts integration of paradigms program analysis and transformation programming environments executable specifications reasoning about language constructs etc

#### **Parallel execution of logic programs on distributed memory multiprocessors** Youjun Luo, 1995

*Programming Language Implementation and Logic Programming* Jan Małuszyński, Martin Wirsing, 1991-08-14 This volume contains the papers which have been accepted for presentation at the Third International Symposium on Programming Language Implementation and Logic

Programming PLILP 91 held in Passau Germany August 26 28 1991 The aim of the symposium was to explore new declarative concepts methods and techniques relevant for the implementation of all kinds of programming languages whether algorithmic or declarative ones The intention was to gather researchers from the fields of algorithmic programming languages as well as logic functional and object oriented programming This volume contains the two invited talks given at the symposium by H Ait Kaci and D B MacQueen 32 selected papers and abstracts of several system demonstrations The proceedings of PLILP 88 and PLILP 90 are available as Lecture Notes in Computer Science Volumes 348 and 456 *Parallel Execution of Logic Programs on Shared Memory Multiprocessors* Gopal Gupta, 1991

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