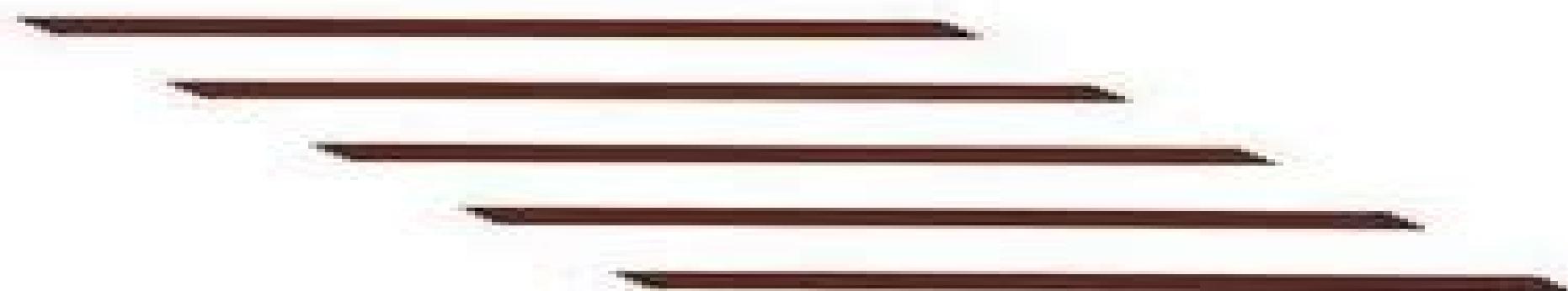# Parallel Execution of Logic Programs

John S. Conery

Parallel Execution Of Logic Programs

Southern Methodist University. Dept. of Computer Science and Engineering,Prasenjit Biswas,Shyh-Chang Su

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   The Implementation of an Algorithm for Parallel Execution of Logic Programs Kaipeng Qi,1994   **Parallel Execution of Logic Programs** George Angelos Papadopoulos,1987*   **Task Scheduling for Parallel Execution of Logic Programs** Zheng Lin,1992 Evidence obtained supports the conclusion that a large scale multiprocessor can be untilized sic efficiently by a parallel logic programming system given an efficient task scheduling mechanism   **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   A Formal Model for Or-Parallel Execution of Logic Programs Andrzej Ciepielewski,Seif Haridi,   **Formal Models for Or-parallel Execution of Logic Programs** A. Ciepielewski,S. Haridi,1983

   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 construcing 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 **OR-parallel Execution of Logic Programs Using RISCy Processing Nodes** Southern Methodist University. Dept. of Computer Science and Engineering,Prasenjit Biswas,Shyh-Chang Su,1985 **Logic Programming '89** Koichi Furukawa,Hozumi Tanaka,1991-04-24 This volume contains selected papers presented at the Eighth Logic Programming Conference held in Tokyo 1989 Various topics in logic programming are covered The first paper is an invited talk by Prof Donald Michie Chief Scientist of the Turing Institute entitled Human and Machine Learning of Descriptive Concepts and introduces various research results on learning obtained by his group There are eleven further papers organized into sections on reasoning logic programming language concurrent programming knowledge programming natural language processing and applications A paper on knowledge programming introduces a flexible and powerful tool for incorporating and organizing knowledge using hypermedia Another paper presents the constraint logic programming language cu Prolog designed for combinatorial problems the way cu Prolog solves the constraints is based on program transformation *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 **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 atthe Third International Symposium on Programming Language Implementation andLogic 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 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 **Improvements to an OR-parallel Execution Model for Logic Programs** Uppsala Universitet. Dept. of Computer Science. Uppsala Programming Methodology and Artificial Intelligence Laboratory,J. Montelius,1989 Fully Distributed, AND/OR Parallel Execution of Logic Programs State University of New York at Stony Brook. Department of Computer Science,P. Raman,E. W. Stark,1988

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