

Parallel Logic Programming: A Sequel*

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Abstract

Multi-core and highly-connected architectures have become ubiquitous, and this has brought renewed interest in language-based approaches to the exploitation of parallelism. Since its inception, logic programming has been recognized as a programming paradigm with great potential for automated exploitation of parallelism. The comprehensive survey of the first twenty years of research in parallel logic programming, published in 2001, has served since as a fundamental reference to researchers and developers. The contents are quite valid today, but at the same time the field has continued evolving at a fast pace in the years that have followed. Many of these achievements and ongoing research have been driven by the rapid pace of technological innovation, that has led to advances such as very large clusters, the wide diffusion of multi-core processors, the game-changing role of general-purpose graphic processing units, and the ubiquitous adoption of cloud computing. This has been paralleled by significant advances within logic programming, such as tabling, more powerful static analysis and verification, the rapid growth of Answer Set Programming, and in general, more mature implementations and systems. This survey provides a review of the research in parallel logic programming covering the period since 2001, thus providing a natural continuation of the previous survey. In order to keep the survey self-contained, it restricts its attention to parallelization of the major logic programming languages (Prolog, Datalog, Answer Set Programming) and with an emphasis on automated parallelization

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Parallel Logic Programming

Steve Gregory



Parallel Logic Programming:

P-prolog: A Parallel Logic Programming Language Rong Yang, 1988-01-01 P Prolog is put forward as an alternative proposal to the difficulties faced in the main research areas of parallel logic programmings which have been studied P Prolog provides the advantages of guarded Horn clauses while retaining don't know non determinism where required This monograph presents also an or tree model and an implementation scheme for it to combine and and or parallelism with reasonable efficiency The model and implementation scheme discussed can be applied to P Prolog and other parallel logic languages

Special Issue on the Workshop on Parallel Logic Programming Workshop on Parallel Logic Programming (1994, Eugene, Or.), Takashi Chikayama, 1996 **Parallel Logic Programming** Evan Tick, 1991 Highly parallel machines have been available for many years but because advances in hardware have always outpaced progress in software development designers and users of these machines have yet to realize their full potential Until recently there have been few if any high class parallel programming languages that could be implemented on the wide variety of parallel processing systems in use This book helps to redress the balance by teaching programming techniques as well as performance analysis of parallel programming languages and architectures using logic programming specifically it focuses on the Prolog like languages OR parallel Prolog and AND parallel FGHC Parallel Logic Programming brings to light practical applications of a previously esoteric theoretical area of parallel logic programming and is unique in presenting programming hand in hand with performance analysis of real empirical measurements Its quantitative approach to symbolic parallel programming provides students and professionals with tools for implementing and critically evaluating larger projects The book includes useful chapter summaries programming projects and a glossary

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.

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 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.

Parallel Logic Programming David Courtney Bosley, 1988.

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 program s run on

An Introduction to Parallel Programming Peter Pacheco,2011-02-17 An Introduction to Parallel Programming is the first undergraduate text to directly address compiling and running parallel programs on the new multi core and cluster architecture It explains how to design debug and evaluate the performance of distributed and shared memory programs The author Peter Pacheco uses a tutorial approach to show students how to develop effective parallel programs with MPI Pthreads and OpenMP starting with small programming examples and building progressively to more challenging ones The text is written for students in undergraduate parallel programming or parallel computing courses designed for the computer science major or as a service course to other departments professionals with no background in parallel computing Takes a tutorial approach starting with small programming examples and building progressively to more challenging examples Focuses on designing debugging and evaluating the performance of distributed and shared memory programs Explains how to develop parallel programs using MPI Pthreads and OpenMP programming models

Parallel Logic Programming Using an Intensional Model of Computation David Wayne Rolston,1992 Parallel Logic Programming Akikazu Takeuchi,1992-11-20 Uses a single coherent discussion to introduce the concept of parallel logic programming its languages procedural programming and debugging capabilities Also contains an implementation program and related code of a parallel logic computational model and related explanation Numerous illustrative examples help clarify what is new and essential in PLP

Implicit Parallel Programming in PH Rishiyur S. Nikhil,Arvind,2001 Parallel machines are now affordable and available to many users in the form of small symmetric shared memory multiprocessors SMPs Unfortunately programming practices have not kept pace with this hardware advance The vast majority of developers still write applications in sequential programming languages that do not exploit multiple processors The traditional approaches for adding parallelism to applications are prone to introducing new strange and difficult to eliminate bugs In this important new text the authors offer a completely different vision of the future where parallel programming is the default and sequential programming is a special case The foundation of this vision is an implicitly parallel programming language pH which is the result of two decades of research by the authors A dialect and extension of the standard nonstrict and purely functional language Haskell pH is essentially Haskell with implicitly parallel semantics pH s extensions to Haskell comprise a disciplined approach to shared parallel state so that a pH program even a beginner s program is implicitly parallel The authors have developed this text over ten years while teaching implicit parallel programming to graduate students at MIT and specialized short courses to undergraduates and software professionals in the U S Japan and India

Logic Programming '87 Koichi Furukawa,Hozumi Tanaka,Tetsunosuke Fujisaki,1988-06-22 This volume contains most of the papers presented at the 6th Logic Programming Conference held in Tokyo June 22 24 1987 It is the successor of Lecture Notes in

Computer Science volumes 221 and 264 The contents cover foundations programming architecture and applications Topics of particular interest are constraint logic programming and parallelism The effort to apply logic programming to large scale realistic problems is another important subject of these proceedings *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 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

Selected Papers on Parallel Logic Programming ,1990 Parallel Logic Programming Jonas Barklund,Antonio Brogi,International Conference on Logic Programming,1996 **The Evolution of Parallel Logic Programming Languages** Nikolaos Markantonatos,2015-08-25 This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We

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Parallel Logic Programming Languages Akikazu Takeuchi, K. Furukawa, 1986 **Parallel Logic Programming** Cosmas Hla, 1991

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