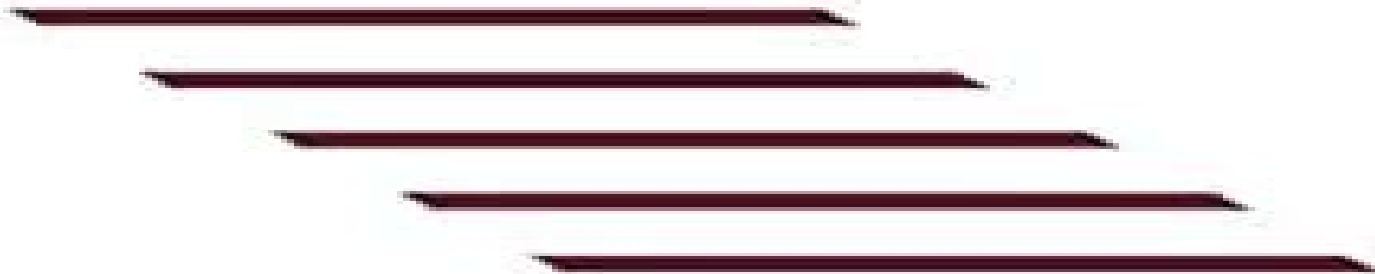

A Code Mapping Scheme for Dataflow Software Pipelining

Guang R. Gao



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A Code Mapping Scheme For Dataflow Software Pipelining:

A Code Mapping Scheme for Dataflow Software Pipelining Guang R. Gao, 2012-11-21 This monograph evolved from my Ph D dissertation completed at the Laboratory of Computer Science MIT during the Summer of 1986 In my dissertation I proposed a pipelined code mapping scheme for array operations on static dataflow architectures The main addition to this work is found in Chapter 12 reflecting new research results developed during the last three years since I joined McGill University results based upon the principles in my dissertation The terminology dataflow software pipelining has been consistently used since publication of our 1988 paper on the argument fetching dataflow architecture model at McGill University 43 In the first part of this book we describe the static data flow graph model as an operational model for concurrent computation We look at timing considerations for program graph execution on an ideal static dataflow computer examine the notion of pipe lining and characterize its performance We discuss balancing techniques used to transform certain graphs into fully pipelined data flow graphs In particular we show how optimal balancing of an acyclic data flow graph can be formulated as a linear programming problem for which an optimal solution exists As a major result we show the optimal balancing problem of acyclic data flow graphs is reduceable to a class of linear programming problem the network flow problem for which well known efficient algorithms exist This result disproves the conjecture that such problems are computationally hard

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Languages and Compilers for Parallel Computing Utpal Banerjee, David Gelernter, Alex Nicolau, David A. Padua, 1992 This volume contains the proceedings of the Fourth Workshop on Languages and Compilers for Parallel Computing held in Santa Clara California in August 1991 The purpose of the workshop held every

year since 1988 is to bring together the leading researchers on parallel programming language design and compilation techniques for parallel computers. The papers in this book cover several important topics including 1 languages and structures to represent programs internally in the compiler 2 techniques to analyze and manipulate sequential loops in order to generate a parallel version 3 techniques to detect and extract fine grain parallelism 4 scheduling and memory management issues in automatically generated parallel programs 5 parallel programming language designs and 6 compilation of explicitly parallel programs. Together the papers give a good overview of the research projects underway in 1991 in this field.

Mathematical Foundations of Computer Science 1986 Jozef Gruska, Branislav Rován, Juraj Wiedermann, 1986-08-01

Parle '91 Parallel Architectures and Languages Europe Emile H.L. Aarts, Jan van Leeuwen, Martin Rem, 2013-11-11

The innovative progress in the development of large and small scale parallel computing systems and their increasing availability have caused a sharp rise in interest in the scientific principles that underlie parallel computation and parallel programming. The biannual Parallel Architectures and Languages Europe PARLE conferences aim at presenting current research material on all aspects of the theory, design and application of parallel computing systems and parallel processing. At the same time the goal of the PARLE conferences is to provide a forum for researchers and practitioners to exchange ideas on recent developments and trends in the field of parallel computing and parallel programming. The first two conferences PARLE 87 and PARLE 89 have succeeded in meeting this goal and made PARLE a conference that is recognized worldwide in the field of parallel computation. PARLE 91 again offers a wealth of high quality research material for the benefit of the scientific community. Compared to its predecessors the scope of PARLE 91 has been broadened so as to cover the area of parallel algorithms and complexity in addition to the central themes of parallel architectures and languages. The proceedings of the PARLE 91 conference contain the text of all contributed papers that were selected for the programme and of the invited papers by leading experts in the field.

Annual International Phoenix Conference on Computers and Communications, 1990

Languages and Compilers for Parallel Computing, 1991

International Journal of Mini & Microcomputers, 1990

Proceedings of the First International Conference on Massively Parallel Computing Systems (MPCS), May 2-6, 1994, Ischia, Italy, 1994

CASCON '93: Distributed computing, 1993

The Cumulative Book Index, 1991

A world list of books in the English language

Languages and Compilers for Parallel Computing David Hillel Gelernter, Alexandru Nicolau, David A. Padua, 1990

A collection of papers examining the languages and compilers for parallel computing. It covers a wide variety of topics ranging from improving parallel program performance using critical path analysis to software engineering of parallel programs in the computation orientated display environment.

Conference Proceedings, 1990

Arrays, Functional Languages, and Parallel Systems Lenore Mullin, 1991-10-31

During a meeting in Toronto last winter Mike Jenkins, Bob Bernecky and I were discussing how the two existing theories on arrays influenced or were influenced by programming languages and systems.

More's Army Theory was the basis for NIAL and APL2 and Mullin's A Mathematics of Arrays MOA is being used as an algebra of arrays in functional and A calculus based programming languages MOA was influenced by Iverson's initial and extended algebra the foundations for APL and J respectively We discussed that there is a lot of interest in the Computer Science and Engineering communities concerning formal methods for languages that could support massively parallel operations in scientific computing a back to roots interest for both Mike and myself Languages for this domain can no longer be informally developed since it is necessary to map languages easily to many multiprocessor architectures Software systems intended for parallel computation require a formal basis so that modifications can be done with relative ease while ensuring integrity in design List based languages are profiting from theoretical foundations such as the Bird Meertens formalism Their theory has been successfully used to describe list based parallel algorithms across many classes of architectures

Subject Guide to Books in Print, 1997 Proceedings of the 1986 International Conference on Parallel Processing, 1986

Books in Print Supplement, 1994 INFOR., 1989 *Supercomputing '88: Supercomputer design: hardware & software*, 1988 **Third International Conference on Supercomputing, Proceedings: Supercomputer design: hardware & software**, 1988

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