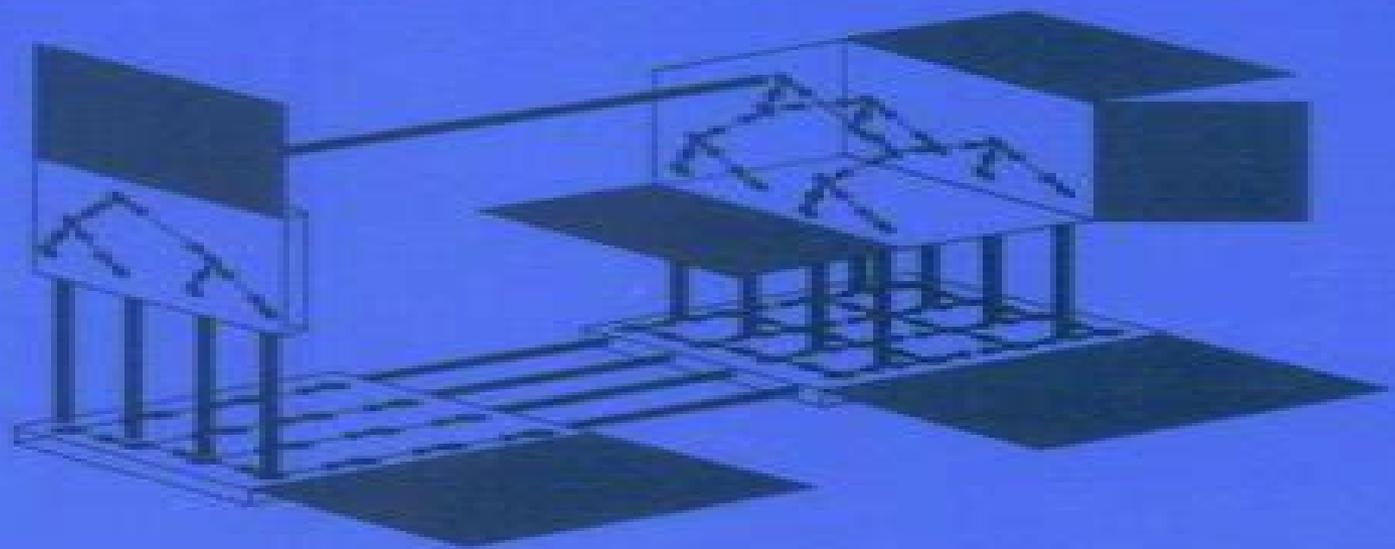# CONCURRENT AGGREGATES

SUPPORTING MODULARITY IN
MASSIVELY PARALLEL PROGRAMS

ANDREW A. CHIEN

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Yan Bai

Concurrent Aggregates:

Concurrent Aggregates Andrew Andai Chien,1993 Concurrent Aggregatesaddresses a key problem in programming languages for massively parallel machines how to write programs that are both modular and highly concurrent It describes a novel approach for managing program complexity based on multi access data abstractions and combining ideas from object oriented and data parallel approaches that allows programmers to build modular programs without sacrificing concurrency The concepts are developed and using application kernels evaluated for effectiveness and implementability The programming language called Concurrent Aggregates incorporates innovative data abstraction tools that allow unlimited concurrency Concurrent Aggregates surpasses existing data parallel languages in its support for arbitrary concurrent abstractions not simply arrays or sets as well as its support for heterogeneous concurrency By adapting a proven complexity management and code reuse technique data abstraction to massively parallel systems Chien produces a language suited for high degrees of concurrency and modular programs The data abstraction tools aggregates permit exploitation of both homogeneous data and heterogeneous concurrency operations against a parallel abstraction in uniform and efficient style Aggregates can encapsulate arbitrary amounts of data and concurrency thus limiting the complexity of Concurrent Aggregates programs Concurrent Aggregates even supports efficient composition of concurrent data abstractions Concurrent Aggregates is designed for machines of the future Chien presents a vision of how to organize computations on massively parallel MIMD machines and program them in modular fashion while facilitating efficient execution by allowing tuning within each abstraction His unique perspective as a designer of the processor network and operating systems for the J Machine prototype results in a language design that reflects the costs of computation in future systems Andrew Andai Chien is Assistant Professor in the Department of Computer Science at the University of Illinois at Champaign Urbana   **Concurrent Aggregates (CA): an Object-oriented Language for Fine-grained Message-passing Machines** Massachusetts Institute of Technology. Artificial Intelligence Laboratory,Andrew Andai Chien,1990 Fine grained parallel machines exhibit great potential for high speed computation Several machines such as the J machine and the Mosaic C are projected to provide peak performance of 100 s of billions of instructions per second in an air cooled computer that fits in a cubic meter While the hardware technology to build fine grained machines is available significant challenges remain in developing software systems to harness their computational power To program massively concurrent MIMD machines programmers need tools for managing complexity One important tool used in the sequential programming world is hierarchies of abstractions Unfortunately most concurrent object oriented languages construct hierarchical abstractions from objects that serialize serializing the abstractions In machines with tens of thousands of processors this unnecessary serialization can cause significant loss of concurrency Tools for managing concurrency should not restrict or reduce program concurrency Concurrent Aggregated CA provides multiple access data abstraction tools Aggregates for managing program complexity

These tools can be used to implement abstractions with virtually unlimited potential for concurrency Such tools allow programmers to modularize programs without reducing concurrency These aggregates can be composed hierarchies of abstractions allowing the structuring of a program to be highly concurrent at all levels kr **Experience with Concurrent Aggregates (CA): Implementation and Programming** A. A. Chien,W. J. Dally,1990 *The Semantics and Implementation of Aggregates Or how to Express Concurrency Without Destroying Determinism* Thomas Clarke,1990

Specification of Parallel Algorithms Guy E. Blelloch,K. Mani Chandy,Suresh Jagannathan,1994 This volume contains papers presented at the DIMACS workshop on Specification of Parallel Algorithms held in May 1994 at Princeton University The goal of the workshop was to bring together some of the best researchers in parallel languages algorithms and systems to present and discuss recent developments in their areas of expertise Among the topics discussed were new specification techniques for concurrent and distributed systems behavioral and operational specification techniques new parallel language and system abstractions novel concurrent architectures and systems large scale parallel systems specification tools and environments and proof techniques for concurrent systems **Object-Technologies for Advanced Software** Kokichi Futatsugi,Satoshi Matsuoka,1996-02-28 This book constitutes the refereed proceedings of the Second International Symposium on Object Technologies for Advanced Software ISOTAS 96 held in Ishikawa Japan in March 1996 ISOTAS 96 was sponsored by renowned Japanese and international professional organisations The 14 papers included in final full versions together with the abstracts of four invited papers were carefully reviewed and selected from a total of 56 submissions they address most current topics in object software technology object oriented programming object oriented databases etc The volume is organized in sections on design and evolution parallelism and distribution meta and reflection and evolution of reuse Annual Review Of Scalable Computing, Vol 2 Chung Kwong Yuen,2000-11-14 Continuing the Series on Scalable Computing launched in 1999 this volume presents five articles reviewing significant current developments in the field The topics include the collaborative activities support system parallel languages Internet Java the multithreaded dataflow machine and task allocation algorithms Parallel Symbolic Computing: Languages, Systems, and Applications Robert H. Halstead,Takayasu Ito,1993-11-03 Parallel and distributed computing are becoming increasingly important as cost effective ways to achieve high computational performance Symbolic computations are notable for their use of irregular data structures and hence parallel symbolic computing has its own distinctive set of technical challenges The papers in this book are based on presentations made at a workshop at MIT in October 1992 They present results in a wide range of areas including speculative computation scheduling techniques program development tools and environments programming languages and systems models of concurrency and distribution parallel computer architecture and symbolic applications **Annual Review of Scalable Computing** Yuen Chung Kwong,2000 Continuing the Series on Scalable Computing launched in 1999 this volume presents five articles reviewing significant current developments in the field The topics include the collaborative

activities support system parallel languages Internet Java the multithreaded dataflow machine and task allocation algorithms

Parallel Programming Using C++ Gregory V. Wilson,Paul Lu,1996-07-08 Foreword by Bjarne Stroustrup Software is generally acknowledged to be the single greatest obstacle preventing mainstream adoption of massively parallel computing While sequential applications are routinely ported to platforms ranging from PCs to mainframes most parallel programs only ever run on one type of machine One reason for this is that most parallel programming systems have failed to insulate their users from the architectures of the machines on which they have run Those that have been platform independent have usually also had poor performance Many researchers now believe that object oriented languages may offer a solution By hiding the architecture specific constructs required for high performance inside platform independent abstractions parallel object oriented programming systems may be able to combine the speed of massively parallel computing with the comfort of sequential programming Parallel Programming Using C describes fifteen parallel programming systems based on C the most popular object oriented language of today These systems cover the whole spectrum of parallel programming paradigms from data parallelism through dataflow and distributed shared memory to message passing control parallelism For the parallel programming community a common parallel application is discussed in each chapter as part of the description of the system itself By comparing the implementations of the polygon overlay problem in each system the reader can get a better sense of their expressiveness and functionality for a common problem For the systems community the chapters contain a discussion of the implementation of the various compilers and runtime systems In addition to discussing the performance of polygon overlay several of the contributors also discuss the performance of other more substantial applications For the research community the contributors discuss the motivations for and philosophy of their systems As well many of the chapters include critiques that complete the research arc by pointing out possible future research directions Finally for the object oriented community there are many examples of how encapsulation inheritance and polymorphism can be used to control the complexity of developing debugging and tuning parallel software   Optimization of Object-oriented and Concurrent Programs John Bradley Plevyak,University of Illinois at Urbana-Champaign. Department of Computer Science,1996 Abstract High level programming language features have long been seen as improving programmer efficiency at some cost in program efficiency When features such as object orientation and fine grained concurrency which greatly simplify expression of complex programs are used parsimoniously their effectiveness is mitigated It is my thesis that these features can be implemented efficiently through interprocedural analysis and transformation By specializing their implementation to the contexts in which they are used the program s efficiency is not adversely affected by the flexibility of the language The specific contributions herein are 1 an adaptive flow analysis for pracical precise analysis of object oriented programs 2 a cloning algorithm for building specialized versions of general abstractions 3 a set of optimizations for removing object oriented and fine grained concurrency overhead and 4 a hybrid sequential parallel execution model which adapts to the

availability of data The effectiveness of this framework has been empirically validated on standard benchmarks It is publicly available as part of the Illinois Concert system http www csag cs uiuc edu **Programming Languages for Parallel Processing** David B. Skillicorn,Domenico Talia,1995 Mathematics of Computing Parallelism **Year Book** Carnegie Institution of Washington,1926 List of the names of persons engaged in the various activities v 10 p 243 257 <u>Scientific and Technical Aerospace Reports</u> ,1991-05 **Empirical Study of Load Distribution Strategies on Multicomputers** Bobby Achirul Awal Nazief,University of Illinois at Urbana-Champaign. Department of Computer Science,1991 In particular we study the interaction between task placement strategies and parallel programs under different hardware and machine architectures We also study whether task migration strategies can improve the performance obtained by task placement strategies alone Because the cost of task migration may potentially be more expensive than that of task placement we also study the possibility of reducing the task migration overhead **Implementing Aggregates in Parallel Functional Languages** T. J. W. Clarke,1989 Aggregates defined using joins on partial orders allow early termination if an operational implementation is used Arvind s I structures and Burton s improving values are examples of this **Collected Papers** Thomas Chrowder Chamberlin,1893 **Proceedings of the Fifth Distributed Memory Computing Conference** David W. Walker,Quentin F. Stout,1990 **"Code of Massachusetts regulations, 2011"** ,2011 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **"Code of Massachusetts regulations, 2014"** ,2014 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020

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