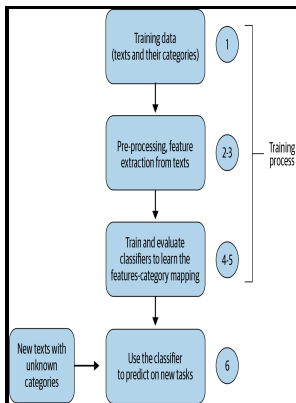# Automatic parallelization - new approaches to code generation, data distribution, and performance prediction

## Vieweg - Loop parallelization algorithms: From parallelism extraction to code generation



Description: -

-

American Science Fiction And Fantasy
Fantasy
Fiction / General
Fantastic fiction
Professions -- South Africa.
Business and education -- South Africa.
Education, Higher -- South Africa.
Parallel processing (Electronic computers)Automatic parallelization - new approaches to code generation, data distribution, and performance prediction

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v. 32
Advances in neurology ;
Vieweg advanced studies in computer scienceAutomatic parallelization - new approaches to code generation, data distribution, and performance prediction
Notes: Includes bibliographical references and index.
This edition was published in 1994



Filesize: 10.37 MB

Tags: #An #Automatic #Instruction

## Automatic Parallelization

. International Conference on Computational Science 2006 ICCS 2006 , Reading, UK, Lecture Notes in Computer Science, Springer-Verlag, 2006. .

## Automatically estimating network contention of parallel programs

Most applications perform expensive stack walking to recover contexts. Pluto transforms C programs from source to source for coarse-grained parallelism and data locality simultaneously.

## Automatically estimating network contention of parallel programs

A Compile-Time Data Locality Optimization Framework for NUCA Chip Multiprocessors. Parallel Prophet models many realistic features of parallel programs: unbalanced workload, multiple critical sections, nested and recursive parallelism, and specific thread schedulings and paradigms, which are hard to model in previous approaches. The compiler identifies these language constructs and analyzes the marked code for parallelization.

## Autotuning for Automatic Parallelization on Heterogeneous Systems

Workshop on High Performance Computation on Very Large Data Sets, part of HPCN Europe 99, pp. We propose a technique to encode the current calling context of any point during an execution.

## CiteSeerX — Citation Query Automatic parallelization in the polytope model

More specially, we have developed a tool that automaticall. With Parallel Prophet, programmers simply insert annotations that describe the parallel behavior of the serial program.

## [PDF] Predicting the Performance of Automatically Scalable Computation ( ASC )

. Connectionist Models Summer School, pp. Some of them even make the optimal choices within their framework.

## CiteSeerX — Automatic Parallelization

If such optimization is not possible for all references, then temporal localization of reused data sequences is made at some outer loops level. In contrast to dynamic scripting languages, our technique is used for automatic parallelization of machine code. Similarly, we target SMP by a static automatic parallelization method, but on the machine level using more fine-grained ILP.

## Effective automatic computation placement and dataallocation for parallelization of regular programs

The increase is noticeable until 8 cores, where it is around 4.

## Related Books

- Language and structure in Becketts plays - a lecture given at the Princess Grace Irish Library on We
- The bridge at Chappaquiddick.
- Sixteenth census of the United States: 1940. - Population ...
- Community care - reacting to Griffiths.
- Russko-cheshskiĭ slovar' po vychisliteľnoĭ tekhnike - okolo 30000 terminov i terminologicheskikh