Coarse-Grain Parallel Programming in Jade

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Abstract

This paper presents Jade, a language which allows a programmer to easily express dynamic coarse-grain parallelism. Starting with a sequential program, a programmer augments those sections of code to be parallelized with abstract data usage information. The compiler and run-time system use this information to concurrently execute the program while respecting the program's data dependence constraints. Using Jade can significantly reduce the time and effort required to develop and maintain a parallel version of an imperative application with serial semantics. The paper introduces the basic principles of the language, compares Jade with other existing languages, and presents the performance of a sparse matrix Cholesky factorization algorithm implemented in Jade.

1   Introduction

The goal of our research is to provide programming language support for exploiting coarse-grain concurrency, or concurrency in which each unit of serial computation executes at least several thousand instructions. There are two major reasons why automatic techniques that extract static parallelism from sequential programs cannot fully exploit available coarse-grain concurrency. First, only the programmer has the high-level knowledge necessary to decompose his program into coarse-grain tasks. This information is lost once the program is encoded in a conventional programming language. Second, it is sometimes important to exploit irregular, data-dependent concurrency available only as the program runs. The large grain size often makes it possible to profitably amortize the dynamic overhead required to exploit this last source of concurrency.

There have been several attempts to provide programming language support for coarse-grain concurrency. Most of the proposed languages support an explicitly parallel programming paradigm. The programmer must therefore directly manage the concurrency using constructs that create and synchronize parallel tasks. This management burden complicates the programming process, making parallel programming a more time-consuming, error-prone activity than programming in a conventional sequential language.

This paper introduces a new programming language called Jade, which supports coarse-grain concurrency within the sequential imperative programming paradigm. Jade programmers augment a sequential program with high-level dynamic data usage information. The Jade implementation uses this information to determine which operations can be executed concurrently without violating the program's sequential semantics. While the compiler can sometimes use this information to extract statically available concurrency, the Jade run time system is capable of analyzing the data usage information and extracting dynamically available concurrency. Because the Jade implementation is responsible for managing the parallel activity over the physical hardware, machine dependent optimizations can be provided by tailoring the implementation to different architectures. Thus Jade not only simplifies programming by preserving the familiar sequential imperative model of programming, but also enhances portability by providing machine-specific optimizations within the Jade implementation.

Because the power to abstract away from low-level details is critical in a language designed to support coarse-grain concurrency, Jade allows the programmer to express the data usage information at a level of abstraction appropriate to the granularity of parallelism. The programmer groups the units of serial execution as *tasks* and structures the data shared by multiple tasks as *shared data objects*. The programmer can express each task's side effects in terms of high-level side effect specification operations on shared data objects. The design of these objects therefore determines the parallelization and synchronization granularity.

The organization of the paper is as follows. We first introduce the basic programming paradigm, illustrating both how a programmer attaches simple data usage infor-

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