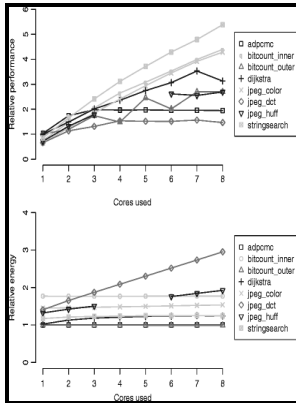


# Exploiting doacross parallelism in tightly-coupled multiprocessors

National Library of Canada - Exploiting Tightly



Description: -

-Exploiting doacross parallelism in tightly-coupled multiprocessors

-

I.D.E. occasional papers series -- no. 36.

Yuan dian wen hua cong shu

Canadian theses = -- Thèses canadiennes Exploiting doacross parallelism in tightly-coupled multiprocessors

Notes: Thesis (M.Sc.) -- University of Toronto, 1996.

This edition was published in 1996



Filesize: 59.72 MB

Tags: #Parallel #sorting #algorithms #for #tightly #coupled #multiprocessors

## Introduction of Multiprocessor and Multicomputer

Loki can be seen as similar to a CGRA, but with an entire processor instead of a simple functional unit.

## Computer Organization and Architecture (Multiprocessors)

It is much cheaper to buy a simple single processor system than a multiprocessor system. ARMADA supports a group multicast service that distributes timed atomic messages.

## Parallelization of DOALL and DOACROSS Loops—a Survey

These arrays of processing elements may provide support for a broader range of applications, where individual cores may be programmed as traditional processors but also viewed as configurable circuit-level components which perform a single task.

## Introduction of Multiprocessor and Multicomputer

When the sending processor and receiving processor name each other as a source and destination, a channel of communication is established. The fact that it is set again does not change the semaphore value. The modifications are expected to be within reach of a standard optimising compiler, and include simple optimisations such as removal of no-ops and filling branch- and load-delay slots.

## Exploiting Tightly

This Is basically a hardware unit designed to maintain a bus-watching mechanism over all the caches attached to the bus. Loki differs from other polymorphic chip multi-processors in its finer granularity and its greater scope for flexibly using datapath resources. We explore using one core as a helper core to provide common data required by all other cores.

## **Multiprocessor Systems**

Milutinović, in , 2014 3. Full compiler-based management of cache contents is also possible.

## Related Books

- [Detection and prevention of chronic disease utilizing multiphasic health screening techniques - a re](#)
- [Through cloud and sunshine](#)
- [Tribute to Madame de Pompadour - and the court of Louis XV](#)
- [RACER # 3514833](#)
- [Human development in the era of globalization - essays in honor of Keith B. Griffin](#)