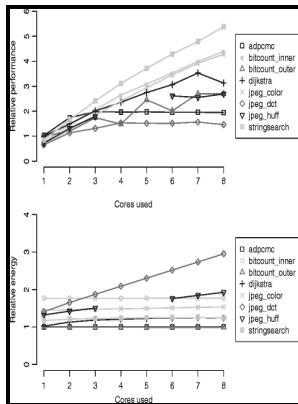


Exploiting doacross parallelism in tightly-coupled multiprocessors

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Description: -

- Exploiting doacross parallelism in tightly-coupled multiprocessors

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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.

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