Scalable Shared-Memory Multiprocessing

reviewed by Janusz Zalewski, Embry Biddle Aeronautical University

Spokety Duaret-Microscy Studiosocressing by Cardel E. Jescotk, and Walf Despicels Webser 534 95 Morgae Kaufmenn Sen Prancisco 1986 1986 This book is primarily devoted to Dosh (Directory Architecture for Shared Alemory), a multiprocessor system known from earlier publications (see "The Stanford Dash Multiprocessor," Categorary, Mar. 1992, Vol. 35, No. 3, pp. 63–79). The book also provides readers with a comprehensive view of modern multiprocessing, as it describes where the eachnology is accountly heading.

The major issue in multipresonator archirectures is communication; how multiple processors communicate with each other. Not so long upo, buses were the stude compoment tyring various computational piecestogether. Multiple processors used a bus to access common memory or to communicate with separate memories, which maked a communication bortleneck. Strictly speakings the problems started when overs watered to extend existing systems with several processors to much langer aggregates of dozens or even brandreds of processing units. In such cases, even hierarch cally organized bases hogan toentanges, and designers faced a scalability horrier. Moving from a bus to a point-to-point metwork was an immediate solution, but then old problems persisted and new ones arose. such as cache coherence. One approach was to maintain shared memory (common address space) along the lies or across the nerwork. without eache coherence. Another relied on measure possing, but in both cases the measory latency problem coverged. Technological developments soon made possible widespread use of eaches, and then other problems: started. Maintaining cache coherence across the bos (let alone the entire network) is not privial, and most designers but their beir before corning up with satisfactory administra-

This book is a concentrated effort to address such possiblems and provide a solution to maintain cache otherwise scores the point-to-point network of multiple processors. The authors cell it wallable shared-memory multi-processing (SSMF). The book's share parasers General Concepts, Experience with Dash, and Future Trends. The first is the most inpressing, is is mainly a hartonical perspective on multiprocessor systems.

The book first discusses scalability problens in detail, concluding that hardware cache coherence is a lary to high performance. To ensure scalability, one must apply point-ropoint intervenuections (as opposed to a bus) and buse cache coherence on directory scheroes. Scalability has three illustrations:

- How does the performance scale? Ther is, when speeding (in terms of essention time) on we achieve by using N processor over a single propessor for the same problem?
- How does the one scale when more programmy are added?
- What is the largest number of processors for which multiprocessing rather than uniprocessing is still advantageous? That is, what is the mage of scalability?

The book then proceeds to simulation experiments for six realistic practical probleans; simulation of hypersonic flow using a particle-in-cell method, water molecule interaction, digital local simulation, routing wires for VI-SI standard cull designs, Cholesky facporiention of a sparse matrix, and bierarchical-At body gravitation simulation. To study the execution behavior of all six applications, the are the state of a signal and a sur, with shared data uncuched and cached under a simple PRAM memory model. The major finding was that reducing memory lanency due to shared data is erocial for achieving good performance of parallel spolicytions. The study of communication behavior. revealed that, quite obviously, real memory system models increased traffic by an order of rangalunds. Finally, directory-based cachecoherence using an irrealidating protocol manched the applications' behavior well. The teat entensively documents all six studies.

Next, the authors tacide techniques to address problems of long bowey and knaired hundraids. The latency problem increases with the number of processors, because the superior of memory must be accessed through the invercementary must be accessed through the invercementary must be accessed through because of high rose, the bardwidth to access memory causes and memory. The book discusses two approaches to handling memory latency because of bardwidths to describe the most block cause of bardwidth problems, but spots caused by referenced to synchronization variables.

The first part concludes with a discussion of implementation issues, including creat, and a critical overview of SSMP syncton designed and built as far. These systems are grouped into at categories discensely-based, harmorbical, reflective astensory, non-cache-cole rore, torow, and virtual started-intensety systems.

The authors then theroughly describe their experience in building the Dash system, its

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A Gutmann

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