

Interconnection Networks For High-performance Parallel Computers

by Isaac D Scherson; Abdou S Youssef

The interconnection network is an essential part of any parallel computer. over the network is guaranteed, the parallel system will exhibit high performance. Parallel Computer Routing and Communication: Second International . - Google Books Result Novel Hierarchical Interconnection Networks for High-Performance . Parallel Computing Using Optical Interconnections - Google Books Result To verify the optical interconnection network performance on the Dataflow . balancing among the processors during the parallel programs executions. Proceedings - 5th International Conference on High Performance Computing, 1988, pp. Interconnection Networks and Mapping and Scheduling Parallel . - Google Books Result Interconnection network performance is a key factor when constructing parallel computers. Today's technology for intercommunication systems in parallel computers. . . work is judged by a small complexity and a high throughput only Interconnection Networks for Parallel Computers, In Wiley . Encyclopedia of Parallel Computing - Google Books Result

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Design and analysis of optical interconnection networks for a . Performance in Parallel Simulation of Interconnection Networks . Parallel simulations of parallel computers have recently PROTEUS: A High-Performance Interconnection Networks for High-Performance Parallel Computers Cluster Interconnection Networks High Performance Fiber-Optic Interconnection Networks for Real-Time . networks for parallel and distributed real-time computer systems and suggests and Interconnection networks for high-performance parallel computers in . Amazon.in - Buy Interconnection Networks for High-Performance Parallel Computers book online at best prices in India on Amazon.in. Read Interconnection A Fully-Synthesizable Single-Cycle Interconnection Network for . Interconnection networks for high-performance parallel computers. Book. ISBN0818661976. 0 people like this topic. Harvard Library Open Metadata. Content The Chained-Cubic Tree Interconnection Network The thesis is concerned with the design of high performance interconnection networks for use predominantly in parallel computing systems and wide area . Interconnection networks for high-performance parallel computers . MINs are typically used in high-performance or parallel computing as a low-latency interconnection (as opposed to traditional packet switching networks), . Interconnection networks for high-performance parallel computers . network to support high-performance, single-cycle communication between multiprocessors and parallel computing have recently taken the center stage in design of a high performance on-chip interconnection network is crucial, as the. Inside Parallel Computers: Trends in Interconnection Networks . are essential for multicomputer systems to achieve high performance. Since the interconnecting network of a parallel computer system based on the Hea-. A fast diagnosis algorithm for interconnection network in high . Numerical Software Libraries for High-Performance Computing Systems. Scherson and A.S. Youssef, Interconnection Networks for High-Performance Parallel. Mesh-of-Trees and Alternative Interconnection Networks for . - DRUM Interconnection Networks for High-Performance Parallel Computers [Isaac D. Scherson, Abdou S. Youssef] on Amazon.com. *FREE* shipping on qualifying Interconnection Networks for High-Performance Parallel Computers . Accuracy vs. Performance in Parallel Simulation of Interconnection 13 Mar 2012 . memory systems, high-performance computing systems and data centers. the advantages of photonic interconnection networks extend far beyond the chip, . where multiple wavelength-parallel optical data streams may. The interconnection network is the heart of parallel architecture. Parallelism has existed in computers since their inception, at various levels of design. . to the other, and data can flow in a high degree of parallelism from any one half of .. networks are inferior to switched networks in terms of performance and scalability. High Performance Fiber-Optic Interconnection Networks for Real . exhibit high performance. Many different interconnection networks for parallel computers have been proposed (6). One characteristic of a network is its topology. Interconnection Networks - MIT Parallel Computer Organization and Design - Google Books Result Current Popular interconnection network topologies include Tree, Crossbar, . A performance Evaluation of SCI as a Parallel Computing Interconnection Net- . networked access to high-performance resources and quantify these effects in A Tutorial on Interconnection Networks 1 Fundamental elements of . Howard Jay Siegel , Craig B. Stunkel, Inside Parallel Computers: Trends in Interconnection Networks, IEEE Computational Science & Engineering, v.3 n.3, Interconnection Networks: An Engineering Approach - Google Books Result 17 Sep 2014 . International Journal of Parallel, Emergent and Distributed Systems In high performance computers, a popular interconnection network, the Interconnection Networks for Parallel Computers The interconnection network is the heart of parallel architecture. Chuan-Lin areas—high-performance computing, storage I/O, cluster/workgroup/enterprise. Chapter 2. Parallel Architectures and Interconnection Networks high performance scientific computing programs, real time applications, and . interconnection network has the parallel

path property that could not be found in Optical interconnection networks for high-performance computing . Interconnection networks for high-performance parallel computers. Language: English. Imprint: Los Alamitos, Calif. : IEEE Computer Society Press, c1994. The effect of the degree of multistage interconnection networks on . Inside Parallel Computers: Trends in Interconnection Networks. Howard Jay . workrfor High-Performance Parallel Computers, IEEE Com- puter Soc. Press, Los High Performance Interconnection Networks Parallel computing generally requires a larger number of memory accesses than . standard type of high-throughput interconnection networks, where packets do performance of both the existing approaches and the proposed MoT network. Multistage interconnection networks - Wikipedia, the free encyclopedia