



In Search of Clusters (2nd Edition)

By Pfister, Gregory

Prentice Hall, 1997. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: I. WHAT ARE CLUSTERS, AND WHY USE THEM? 1. Introduction. Working Harder. Working Smarter. Getting Help. The Road to Lowly Parallel Processing. A Neglected Paradigm. What is to Come. 2. Examples. Beer & Subpoenas. Serving the Web. The Farm. Fermilab. Other Compute Clusters. Full System Clusters. Cluster Software Products. Basic (Availability) Clusters. Not the End. 3. Why Clusters? The Standard Litany. Why Now? Why Not Now? Commercial Node Performance. The Need for High Availability. 4. Definition, Distinctions, and Initial Comparisons. Definition. Distinction from Parallel Systems. Distinctions from Distributed Systems. Concerning "Single System Image." Other Comparisons. Reactions. II. HARDWARE. 5. A Cluster Bestiary. Exposed vs. Enclosed. "Glass-House" vs. "Campus-Wide" Cluster. Cluster Hardware Structures. Communication Requirements. Cluster Acceleration Techniques. 6. Symmetric Multiprocessors. What is an SMP? What is a Cache, and Why Is It Necessary? Memory Contention. Cache Coherence. Sequential and Other Consistencies. Input/Output. Summary. 7. NUMA and Friends. UMA, NUMA, NORMA, and CC-NUMA. How CC-NUMA Works. The "N" in CC-NUMA. Software Implications. Other CC-NUMA Implications. Is "NUMA" Inevitable? Great Big CC-NUMA. Simple COMA. III. SOFTWARE. 8. Workloads. Why Discuss Workloads? Serial: Throughput. Parallel. Amdahl's...



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