



## Operating System Considerations for Large-Scale MIMD Machines (Classic Reprint) (Paperback)

By Jan Edler

Forgotten Books, United States, 2016. Paperback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from Operating System Considerations for Large-Scale MIMD Machines However, it remains to be demonstrated that this potentially high-performance assemblage can be effectively utilized. There are two dimensions to this challenge. First, several thousand processors must be coordinated in such a way that their aggregate power is applied to useful computation. Serial procedures in which one processor works while the others wait become bottlenecks that drastically reduce the power obtained. Indeed, for any highly parallel architecture, the relative cost of a serial bottleneck rises linearly with the number of processors involved. Second, the machine must be programmable by humans. Effective use of high degrees of parallelism will be facilitated by simple languages and facilities for designing, writing, and debugging parallel programs. We propose that the hardware and software design of a highly parallel computer should meet the following goals. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst...



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