



Parfor a Structured Environment for Parallel FORTRAN (Classic Reprint) (Hardback)

By Wayne Berke

Forgotten Books, 2018. Hardback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Parfor a Structured Environment for Parallel Fortran We present an extension to the fortran language that allows the user to specify parallelism by means of clearly defined, nestable blocks. The implementation achieves compiler-independence through a portable preprocessor. High performance is obtained by prespawning processes and relying on a set of runtime routines to manage a self-scheduling allocation scheme. The resulting system, which we call parfor, lends itself to the exploitation of fine-grained parallelism because of its low scheduling overhead. It encourages the elimination of explicit process synchronization, thereby enhancing the readability of the source program. In addition, parfor provides a variety of modes and compile-time Options that are useful for performance measurement and debugging. Finally, we present an evaluation of system efficiency including timing results for several parallel applications running on the eight-processor Ultracomputer prototype. 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 repairing...



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