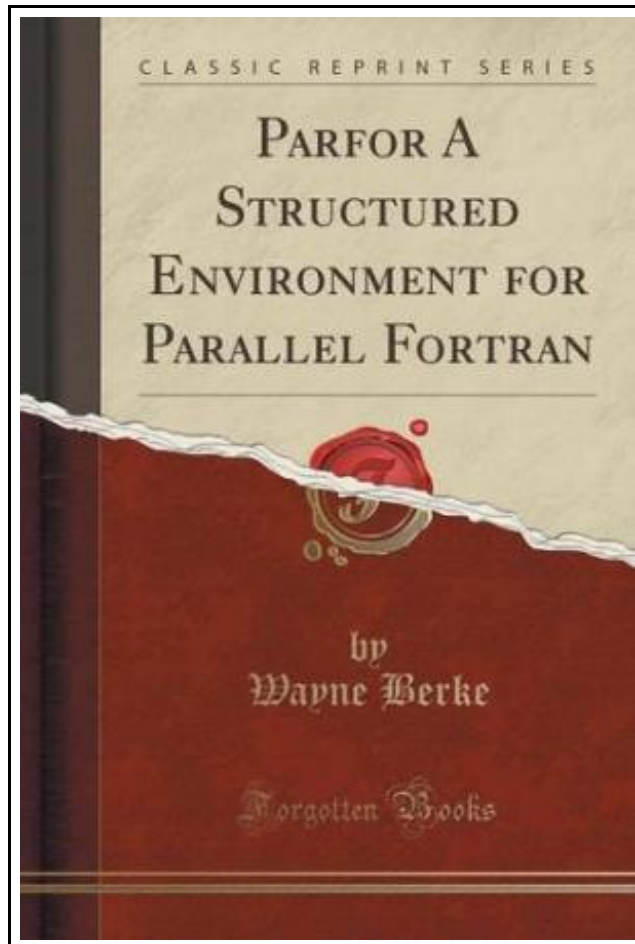# Parfor a Structured Environment for Parallel FORTRAN (Classic Reprint) (Paperback)

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PARFOR A STRUCTURED ENVIRONMENT FOR PARALLEL FORTRAN (CLASSIC REPRINT) (PAPERBACK)

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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. 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 run-time 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. 1. Introduction It has been shown that parallel programming can be used to provide significant speedups for a variety of applications. A wide range of architectures has been developed that are capable of multiple-CPU concurrency. Unfortunately, this diversity in hardware is also reflected in software. Many parallel programming systems require the user to be intimately acquainted with the architecture. This often results in cryptic, hard-to-maintain code. Clearly, a more general purpose user interface is needed. One approach is to develop new high-level languages that incorporate parallel semantics within their overall structure. The tasking facilities of Ada are an example of this. Alternatively, more established languages may be enhanced to provide a suitable interface to the multiprocessor. The latter method facilitates the upgrading of existing serial codes without requiring a thoroughgoing translation process. This motivated our decision to extend the syntax...

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