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MPI: The Complete Reference (Vol. 2), Vol. 2 - The MPI-2 Extensions

Synopsis

Since its release in summer 1994, the Message Passing Interface (MPI) specification has become a standard for message-passing libraries for parallel computations. There exist more than a dozen implementations on a variety of computing platforms, from the IBM SP-2 supercomputer to PCs running Windows NT. The MPI Forum, which has continued to work on MPI, has recently released MPI-2, a new definition that includes significant extensions, improvements, and clarifications. This volume presents a complete specification of the MPI-2 Standard. It is annotated with comments that clarify complicated issues, including why certain design choices were made, how users are intended to use the interface, and how they should construct their version of MPI. The volume also provides many detailed, illustrative programming examples.

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Customer Reviews

As the title implies, this book is a great reference for someone who is looking for a guide to the syntax and usage of MPI. The book does not teach "parallel programming" and doesn't discuss other parallel programming tools which means that the nuts and bolts of MPI are all the more clearly presented and accessible. Furthermore, there are still plenty of examples which demonstrate the usage of the many MPI functions.Another very valuable (and appreciated) aspect of the book is that *both* the C and FORTRAN prototypes are given when new MPI functions are presented (the C and FORTRAN implementations have slightly different forms).

Set up more as a reference than a tutorial, this book allows users with a very basic understanding of MPI to really take off up the learning curve

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