Parallel Programming with MPI

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A hands-on introduction to parallel programming based on the Message-Passing Interface (MPI) standard, the de-facto industry standard adopted by major vendors of commercial parallel systems. This textbook/tutorial, based on the C language, contains many fully-developed examples and exercises. The complete source code for the examples is available in both C and Fortran 77. Students and professionals will find that the portability of MPI, combined with a thorough grounding in parallel programming principles, will allow them to program any parallel system, from a network of workstations to a parallel supercomputer.

* Proceeds from basic blocking sends and receives to the most esoteric aspects of MPI.
* Includes extensive coverage of performance and debugging.
* Discusses a variety of approaches to the problem of basic I/O on parallel machines.
* Provides exercises and programming assignments.

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