

This book offers a practical guide to the advanced features of the MPI (Message-Passing Interface) standard library for writing programs for parallel computers. It covers new features added in MPI-3, the latest version of the MPI standard, and updates from MPI-2. Like its companion volume, *Using MPI*, the book takes an informal, example-driven, tutorial approach. The material in each chapter is organized according to the complexity of the programs used as examples, starting with the simplest example and moving to more complex ones. *Using Advanced MPI* covers major changes in MPI-3, including changes to remote memory access and one-sided communication that simplify semantics and enable better performance on modern hardware; new features such as nonblocking and neighborhood collectives for greater scalability on large systems; and minor updates to parallel I/O and dynamic processes. It also covers support for hybrid shared-memory/message-passing programming; MPI_Message, which aids in certain types of multithreaded programming; features that handle very large data; an interface that allows the programmer and the developer to access performance data; and a new binding of MPI to Fortran.

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Using Mpi-2: Advanced Features of the Message-Passing Interface: Portable with the Message-passing Interface (Scientific and Engineering Computation - Buy Using Advanced MPI: Modern Features of the Message-Passing Interface (Scientific and Engineering Computation) book online at best prices Amazon??????Using Advanced MPI: Modern Features of the Message-Passing Interface (Scientific and Engineering Computation)???????? - 26 sec - Uploaded by C. JeremiahUsing Advanced MPI Modern Features of the Message Passing Interface Scientific and - Buy Using Advanced MPI - Modern Features of the Message-Passing Interface (Scientific and Engineering Computation) book online at best prices Read Using MPI-2 - Advanced Features of the Message Passing Interface (Scientific and Engineering Computation) for solving significant scientific and engineering problems on parallel computers. The volume also includes material on tuning MPI applications for high performance on modern MPI implementations. MPI, the Message-Passing Interface, is an application programmer interface (API) for programming parallel computers. It was first released in 1992 and transformed scientific parallel computing. Today, MPI is 6.1.3, Review of MPI Features That Support Libraries, 158. 6.2, A First . 11, Working with Modern Fortran, 305. Using MPI-2: Advanced Features of the Message Passing Interface (Scientific for solving significant scientific and engineering problems on parallel computers. on tuning MPI applications for high performance on modern MPI implementations. William Gropp is Director of the Parallel Computing Institute and Thomas M. Using MPI – Portable Parallel Programming with the Message–passing Interface Scientific and Engineering Computation: : William Gropp: Books. Using Advanced MPI – Modern Features of the Message–Passing Interface. Modern Features of the Message-Passing Interface ranging from science and engineering to Big Data, programming with MPI is essential. William Gropp is Director of the Parallel Computing Institute and Thomas M. Siebel Chair in Using Advanced MPI covers major changes in MPI-3, including changes to remote advanced features of the MPI (Message-Passing Interface) standard library for writing Scientific and Engineering Computation Series List. Using advanced MPI : modern features of the Message-Passing-Interface. Index Function and Term Index Scientific and Engineering

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