Lab Manual #9

Objective:

To study the MPI collective operations, Data Movement

Theory:

Collective Operations:

MPI_Send and MPI_Recv are "point-to-point" communications functions. That is, they involve one sender and one receiver. MPI includes a large number of subroutines for performing "collective" operations. Collective operations are performed by MPI routines that are called by each member of a group of processes that want some operation to be performed for them as a group. A collective function may specify one-to-many, many-to-one, or many-to-many message transmission. MPI supports three classes of collective operations.

- Synchronization,
- Data Movement
- Collective Computation

These classes are not mutually exclusive, of course, since blocking data movement functions also serve to synchronize process activity, and some MPI routines perform both data movement and computation.

Collective Data Movement:

There are several routines for performing collective data distribution tasks:

- MPI_Brast The subroutine MPI_Brast sends a message from one process to all
 processes in acommunicator.
- MPI_Gather, MPI_Gatherv: Gather data from participating processes into a single structure
- MPI_Scatter, MPI_Scatterv: break a structure into portions and distribute those portions to otherprocesses
- MPI_Aligather, MPI_Aligatherv: gather data from different processes into a single structure that is then sent to all participants (Gather-to-all)
- MPI_Alltonli, MPI_Alltonliv: gather data and then scatter it to all participants (Allto-allscatter/gather)

The routines with "V" suffixes move variable-sized blocks of data

MPI_Bcast:

- The subroutine MPI_Bcast sends a message from one process to all processes in a communicator.
- In a program all processes must execute a call to MPI_BCAST. There is no separate MPI call to receive a broadcast

Message Passing Interface Lab Manual

R Barnett

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Constrained Dynamics Computations Bud Fox, Leslie Stephen Jennings, Albert Y. Zomaya, 2000 A practical approach to the modelling and computation of real world systems Multibody dynamics planar and spatial modelling and numerical methods are all pursued to obtain information about the behaviour of various dynamical systems Each study presents the method of modelling and the ensuing differential equations governing the system behaviour Integration of the equations yields results which are carefully discussed and which indicate how useful information may be obtained from the study The studies include planar mechanisms heavy equipment automobile crash simulation and a spatial planetary system example

Constrained Dynamics Computations: Models & Case Studies Bud Fox, Leslie Stephen Jennings, Albert Y Zomaya, 2000-09-04 This book introduces a practical approach to the modelling and computation of real world systems Multibody dynamics planar and spatial modelling and numerical methods are all pursued to obtain information about the behaviour of various dynamical systems Each study presents the method of modelling and the ensuing differential equations governing the system behaviour Integration of the equations yields results which are carefully discussed and which indicate how useful information may be obtained from the study The studies include planar mechanisms heavy equipment automobile crash simulation and a spatial planetary system example Research students scientists and engineers will appreciate the practical approach taken in this book **Programming Environments for Massively Parallel Distributed Systems** Karsten M. Decker, René M. Rehmann, 1994 The Cray Research MPP Fortran Programming Model Resource Optimisation via Structured Parallel Programming SYNAPS 3 An Extension of C for Scientific Computations The Pyramid Programming System Intelligent Algorithm Decomposition for Parallelism with Alfer Symbolic Array Data Flow Analysis and Pattern Recognition in Numerical Codes A GUI for Parallel Code Generation Formal Techniques Based on Nets Object Orientation and Reusability for Rapid Prototyping of Complex Systems Adaptor A Transformation Tool for HPF Programs A Parallel Framework for Unstructured Grid Solvers A Study of Software Development for High Performance Computing Parallel Computational Frames An Approach to Parallel Application Development based on Message Passing Systems A Knowledge Based Scientific Parallel Programming Environment Parallel Distributed Algorithm Design Through Specification Transformation The Asynchronous Vision System Steps Towards Reusability and Portability in Parallel Programming An Environment for Portable Distributed Memory Parallel Programming Reuse Portability and Parallel Libraries Assessing the Usability of Parallel Programming Systems The Cowichan Problems Experimentally Assessing the Usability of Parallel Programming Systems Experiences with Parallel Programming Tools The MPI Message Passing Interface Standard An Efficient Implementation of MPI Post A New Postal Delivery Model Asynchronous Backtrackable Communications in the SLOOP Object Oriented Language A Parallel I O System for High Performance Distributed Computing Language and Compiler Support for Parallel I O Locality in Scheduling Models of Parallel Computation A Load Balancing Algorithm for

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Proceedings of the Seventh SIAM Conference on Parallel Processing for Scientific Computing David H.

Bailey,1995-01-01 Proceedings Parallel Computing On-line Monitoring Systems and Computer Tool Interoperability
Thomas Ludwig,2003 Ludwig Institut fur Informatik Ruprecht Karls Universitat Heidelberg Germany and Miller computer science U of Wisconsin US present five papers examining the construction and methodology of tools for debugging and performance analysis in parallel programs After a review of the past decade s work in debuggers and performance analyzers papers look a tool infrastructure an operational tool environment for multi thread and multi process debugging and execution visualization multi execution performance tuning and the specification of performance properties of parallel applications using compound events Annotation 2004 Book News Inc Portland OR booknews com MPI--the Complete Reference:

The MPI core Marc Snir,1998 Point to Point Communication User Defined Datatypes and Packing Collective
Communications Communicators Process Topologies Environmental Management The MPI Profiling Interface

Performance Optimization Made Simple: A Practical Guide to Programming William E. Clark,2025-04-17

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