The MPI Forum





presented by

Richard L Graham

Oak Ridge National Laboratory U.S. Department of Energy

Outline

- Forum Structure
- Schedules
- Introductions
- Scope
- Voting Rules
- Committee Rules

Face-To-Face Meetings

- March 10-12, 2008
- April 28-30, 2008 Microsoft, Downtown Chicago
- June 30 July 2, 2008 Sun, Menlo Park
- Sept 3-5, 2008 Dublin, Ireland (Euro PVM/MPI is Sept 7-10, 2008 in Dublin)
- October 20-22, 2008 Microsoft, Chicago (?)
- December 15-17, 2008 Sun, Menlo Park (?)

Telcons

- Week of April 7th, 2008
- Week of May 26th, 2008
- Week of August 4th, 2008
- Week of Sept 29th, 2008
- Week of Nov 24th, 2008

Report due back to Forum Chairman/Secretary (part of the permanent record)

Logistics

- \$200 / meeting / person this meeting
- ~\$50/ meeting next time (site specific)
- Online registration
 - Registration
 - Meeting fee
 - Hotel reservation

NSF funding for participants from US Academic Institutions

- Administered by UTK (Jack Dongarra's group)
- One person per institution
- \$750/meeting for travel/housing/registration/per-diem
- Pre-approval required
- Contact me, if interested

MPI 2.1

Scope: Clarification to the MPI standards document, resulting in a single document describing the full MPI 2.1 standard. This includes merging of documents, text corrections, and added clarifying text.

MPI 2.1 Primary Author: Rolf Rabenseifner

MPI 2.2

Scope: Small changes to the standard. A small change is defined as one that does not break existing user code - either by interface changes or semantic changes - and does not require large implementation changes.

MPI 2.2 Primary Author: Bill Gropp

MPI 3.0

Scope:Additions to the standard that are needed for better platform and application support. These are to be consistent with MPI being a library providing of parallel process management and data exchange. This includes, but is not limited to, issues associated with scalability (performance and robustness), multicore support, cluster support, and application support.

MPI 3.0 - Initial Chapter Authors

- Fault Tolerance/Dynamic Process Control: Rich Graham
- Generalized Requests (progress): George Bosilca
- Improved One-sided Communications: Bill Gropp/Rajeev Thakur
- Non-Blocking Collectives: Andrew Lumsdaine

Voting Rules

- There is one vote per organization, which must be present at the meeting when the vote is taken.
- To vote, an organization must have been present at two of the last three meetings.
- Votes are taken twice, at separate meetings.
 Votes are preceded by a "reading" at an earlier meeting, at which straw votes may be taken.
- Measures pass on simple majority.
- Only items consistent with the charter can be considered.

Jan Meeting Attendees (Orgs may vote this meeting)

- Argonne NL
- Bull
- Cisco
- Cray
- HDF Group
- HLRS
- HP
- IBM
- Indiana University
- Inria
- Intel Corp.
- Lawrence Livermore NL
- Los Alamos NL
- Mathworks

- Myricom
- Microsoft
- NEC
- Oak Ridge NL
- Ohio State University
- Pacific Northwest NL
- QLogic
- Sandia NL
- SGI
- SiCortex
- Sun Microsystems
- University of Alabama Birmingham
- University of Houston
- University of Illinois Urbana Champagne
- University of Wisconsion

Working Groups

- 2.1
 - many active
- 2.2
 - a few items proposed
- 3.0
 - 8 working groups
 - Items will be brought to the full floor for consideration
 - Will slow down items to make sure dependencies between working groups are taken into account
 - Need to look at overall proposals and look for redundancies

Working Groups - Cont'd

- Working groups are functioning on behalf of the full forum
 - WG leads will ensure all proposals are considered
- Working groups should consider competing proposals
- Feel free to bring competing proposals to the full forum for discussion

Food

- Tonight Pizza at
- Tomorrow night -
- Lunch tomorrow on your own
- Make sure to sign up if you want to participate