






MPI 2.1 at MPI Forum Chicago, April 28-30, 2008

Rolf Rabenseifner
rabenseifner@hlrs.de
(Chairman of MPI 2.1 Task)

University of Stuttgart
High-Performance Computing-Center Stuttgart (HLRS)
www.hlrs.de



Working plan: March 10-12, 2008

- Monday:
- 4:15 pm - 4:35 pm : MPI 2.1 - Ballot 3/4 preparation of 1st/2nd vote
 - 4:35 pm - 4:55 pm : MPI 1.3 - Official reading (=report of reviewers)
 - 4:55 pm - 5:15 pm : MPI 2.1 - Official reading (=report of reviewers) 5-10 min/chapter, first part
 - 7:00 pm - 9:00 pm : MPI 2.1 - Official reading (=report of reviewers) 5-10 min/chapter, continued
 - 9:00 pm - 10:00 pm: MPI 1.3/2.1 - additional discussions (*only if needed*)
- (End of all MPI-1.3 & 2.1 discussions)**
- Tuesday:
- 9:00 am - 9:40 am : MPI 2.1 - Ballot 3/4: 1st / 2nd vote
 - 9:40 am - 10:00 am : MPI 2.1 - Decisions (straw votes) on open issues
 - 11:30 am - 12:15 am : MPI 1.3/2.1 - Finishing the official reading – Presentation of the results
- Wednesday: 10:15 am - 10:45 am : MPI 2.1 - Follow up     



MPI-1.3 – Working Plan

- MPI-1.3 final version Apr. 19, 2008 is available
- Reviews are done by the MPI 1.3 reviewing group:
 1. Bill Gropp
 2. Rolf Rabenseifner
 3. Adam Moody
 4. Puri Bangalore
 5. Terry Dontje
- Text basis:
MPI-1.1 (June 1995), MPI-1.2 (July 1997), MPI-1 errata (Oct. 12, 1998), Ballot 1+2 (May 15, 2002), and Ballot 4 items 5, 10.e, 13, and 15
- Official reading:
The reviewers are asked for there (formalized) reviews.
- If there are still bugs that must be fixed, then an additional version will be done for the 1st vote, otherwise this version Apr. 19, 2008 is final.
- This is the official reading.
Therefore, such late modifications must be presented in this meeting.
- Final version → 1st vote June, 2nd vote Sep. 2008



MPI-2.1 – Working Plan

- Monday:
- All reviewer are asked for their (formalized) reviews
 - Discussions (only if needed)
- Tuesday:
- Decisions (straw voted) on open issues from the discussion
 - Summary = finishing the official reading



We need reviewers for: (**bold=large**) : (**red=responsible chapter author**) (Reviewer, green=@meeting)

Frontmatter & Acknowledgements	Bill Gropp & Rich Graham, Rusty Lusk
Chap. 1: Introduction to MPI	Bill Gropp, Rusty Lusk, Karl Feind, Adam Moody, Traeff
Chap. 2: MPI-2 Terms and Conventions	Tony Skjellum, Bill Gropp, Richard Barrett, Traeff
Chap. 3: Point-to-Point Communication & (incl. sections from MPI-2 Misc. + 8.9)	Rich Graham, Jespar Larsson Traeff, George Bosilca, Steve Poole, Kannan Narasimhan, David Solt, B. Gropp
Chap. 4: Datatypes	Matt Koop, Adam Moody
Chap. 5: Collective Communication (incl. sections from MPI-2 Ext. Collect.)	Adam Moody, Steven Ericsson-Zenith, Edgar Gabriel, R. Thakur, B. Gropp, G. Bosilca, Th. Hoefler, J. Traeff
Chap. 6: Groups, Context, and Communicators (incl. sections from MPI-2 Ext.Col. + 8.8)	Richard Treumann Steven Ericsson-Zenith, Edgar Gabriel, Tony Skjellum, Bill Gropp, G. Bosilca, Robert Blackmore
Chap. 7: Process Topologies	Jesper L. Traeff, Rusty Lusk, Bill Gropp, Richard Barrett
Chap. 8: MPI Environmental Management (incl. sections from MPI-2 Misc.)	George Bosilca, Rich Graham, Jespar Larsson Traeff, Steve Poole, Kannan Narasimhan, David Solt, B. Gropp
Chap. 9: Miscellany	Jesper L. Traeff, Rich Graham, George Bosilca, Steve Poole, Kannan Narasimhan, B. Gropp
Chap. 10: Process Creation and Management	David Solt, Dries Kimpe, Rusty Lusk, George Bosilca, Bill Gropp, Kalem Karian,
Chap. 11: One-Sided Communication	Jespar Larsson Traeff, Ericsson-Zenith, Martin Schulz, Bill Gropp, Darius Buntinas,
Chap. 12: External Interfaces	Bronis de Supinski, Bill Gropp, Rainer Keller
Chap. 13: I/O	Rajeev Thakur, Joachim Worringer, Bill Gropp, Koziol
Chap. 14: Profiling Interface	Bronis de Supinski, Bill Gropp, Jeff Brown
Chap. 15: Deprecated Functions	Rolf Rabenseifner, Bill Gropp
Chap. 16: Language Bindings	Jeff Squyres, Steve Poole, Purushotham Bangalore, Bill Gropp, Erez Haba, Alexander Supalov
Annex A Language Bindings Summary	A. Supalov, J. Squyres, St. Poole, P. Bangalore, B. Gropp
Annex B Change Log / Indexes	Rolf Rabenseifner, Bill Gropp
Bibliography	Bill Gropp, Rusty Lusk

Reviewer Question & Answer

Chap. of MPI-2.1 Draft Apr. 19, 2008 represents fully and exactly (as I can overlook) the text that was given by

- MPI-1.1 (June 1995) and MPI-2 (July 1997),
- MPI-1 errata (Oct. 12, 1998),
- Ballot 1+2 (May 15, 2002),
- Ballot 3 (protocol from March 2008 meeting, 1st vote), and
- Ballot 4 (protocol from March 2008 meeting, official reading)

if the following text-modifications (they are already implemented in the current draft) are accepted by the MPI Forum:

- XXXXX

and if the following bugs will be corrected until first vote in June 2008 meeting:

- YYYYYY.

Further comments (not official part of this review):

- ZZZZZ



Reviewer Statements

Example

Chap. of MPI-2.1 Draft Apr. 19, 2008 represents fully and exactly (as I can overlook) the text that was given by MPI-1.1 (June 1995) and MPI-2 (July 1997), MPI-1 errata (Oct. 12, 1998), Ballot 1+2 (May 15, 2002), Ballot 3 (protocol from March 2008 meeting, 1st vote), and Ballot 4 (protocol from March 2008 meeting, official reading)

if the following text-modifications (they are already implemented in the current draft) are accepted by the MPI Forum: XXXXX

and if the following bugs will be corrected until first vote in June 2008 meeting: YYYYYY. Further comments (not official part of this review): ZZZZZ

Chapter	Reviewer	Statement is true	XXXXX (Modifications, to be voted by the Forum)	YYYYY (Bugs, to be done)	ZZZZZ (Further comments)
Chapter 5 Collective Communication	Adam Moody				
	Edgar Gabriel				
	Rajeev Thakur				
	Bill Gropp				
	George Bosilca				
	Torsten Hoefler				
	Jesper Traeff				

Follow-Up: Next Steps

- Ballot 3 → is finally done at this meeting
- Ballot 4 → Jun'08 2nd vote = done
- MPI-1.3 → Jun'08 1st vote → Sep'08 2nd vote = done
- MPI-2.1 → implementing review items until May 30, 2008, still colored
(no further corrections, only items that are now on the table)
→ Reviewers should make a final check
→ Final version of MPI-2.1 – only black&white June 13, 2008
→ June 30 – July 2: 1st vote
→ Sep'08 2nd vote = done
- Libraries: Implementation until EuroPVM/MPI 2008 is feasible

