Annex B

Change-Log

This annex summarizes changes from the previous version of the MPI standard to the version presented by this document. [Only changes (i.e., clarifications and new features) are presented that may cause implementation effort in the MPI libraries.] Only significant changes (i.e., clarifications and new features) that might either require implementation effort in the MPI libraries or change the understanding of MPI from a user's perspective are presented. Editorial modifications, formatting, typo corrections and minor clarifications are not shown.

B.1 Changes from Version 2.1 to Version 2.2

1. Section 2.5.4 on page 14.
   It is now guaranteed that predefined named constant handles (as other constants) can be used in initialization expressions or assignments, i.e., also before the call to MPI_INIT.

2. Section 2.6 on page 16, Section 2.6.4 on page 19, and Section 16.1 on page 465.
   The C++ language bindings have been deprecated and will be removed in a future version of the MPI specification.

3. Section 3.2.2 on page 29.
   MPI_CHAR for printable characters is now defined for C type char (instead of signed char). This change should not have any impact on applications nor on MPI libraries (except some comment lines), because printable characters could and can be stored in any of the C types char, signed char, and unsigned char, and MPI_CHAR is not allowed for predefined reduction operations.

4. Section 3.2.2 on page 29.
   MPI_(U)INT{8,16,32,64}_T, MPI_AINT, MPI_OFFSET, MPI_C_BOOL, MPI_C_COMPLEX, MPI_C_FLOAT_COMPLEX, MPI_C_DOUBLE_COMPLEX, and MPI_C_LONG_DOUBLE_COMPLEX are now valid predefined MPI datatypes.

5. Section 3.4 on page 40, Section 3.7.2 on page 51, Section 3.9 on page 71, and Section 5.1 on page 131.
   The read access restriction on the send buffer for blocking, non blocking and collective API has been lifted. It is permitted to access for read the send buffer while the operation is in progress.