Chapter 1

Errata for MPI-2.2

This document was processed on January 8, 2013.

The known corrections to MPI-2.2 are listed in this document. All page and line numbers are for the official version of the MPI-2.2 document available from the MPI Forum home page at www.mpi-forum.org. Information on reporting mistakes in the MPI documents is also located on the MPI Forum home page.

- Page xxiv after line 13, add (passed on Sep. 21, 2012)
  Intel Corporation

- Section 2.6.2 on page 17, lines 41-42 read (passed on Sep. 21, 2012)
  All MPI names have an MPI_ prefix, and all characters are capitals. Programs must not declare variables, parameters, or functions with names beginning with the prefix MPI_.

  but should read

  All MPI names have an MPI_ prefix, and all characters are capitals. Programs must not declare names (identifiers), e.g., for variables, subroutines, functions, parameters, derived types, abstract interfaces, or modules, beginning with the prefix MPI_.

- Section 2.6.3 on page 18, lines 15-16 read (passed on Sep. 21, 2012)
  Programs must not declare variables or functions with names beginning with the prefix MPI_.

  but should read

  Programs must not declare names (identifiers), e.g., for variables, functions, constants, types, or macros, beginning with the prefix MPI_.

- Section 2.6.4 on page 18, lines 40-41 read (passed on Sep. 21, 2012)
  Programs must not declare variables or functions in the MPI namespace.

  but should read
Programs must not declare names (identifiers), e.g., for variables, functions, constants, types, or macros, in the MPI namespace.

- Sections 3.2.2, 5.9.2, 13.5.2 Table 13.2, 16.1.16 Table 16.1, and Annex A.1.1 on pages 27, 164, 433, 472 and 513 (passed on July 16-19, 2012).
  New named predefined datatypes MPI_CXX_BOOL, MPI_CXX_FLOAT_COMPLEX, MPI_CXX_DOUBLE_COMPLEX, and MPI_CXX_LONG_DOUBLE_COMPLEX were added in C and Fortran corresponding to the C++ types bool, std::complex<float>, std::complex<double>, and std::complex<long double>. These datatypes also correspond to the deprecated C++ predefined datatypes MPI::BOOL, MPI::COMPLEX, MPI::DOUBLE_COMPLEX, and MPI::LONG_DOUBLE_COMPLEX.
  The non-standard C++ types Complex<...> were substituted by the standard types std::complex<...>.

- Section 5.9.2, page 165, line 47 (passed on July 16-19, 2012).
  MPI_C_COMPLEX was added to the “Complex” reduction group.

- Section 7.5.5 on page 257, C++ interface on page 264, line 3 (passed on July 16-19, 2012).
  The argument rank was removed and in/outdegree are now defined as int& indegree and int& outdegree in the C++ interface of MPI_DIST_GRAPH_NEIGHBORS_COUNT.

- Section 13.5.2 page 433 line 22 table 13.2 (passed on Dec. 11, 2009). Change:

  MPI_C_BOOL 4
  
  To:

  MPI_C_BOOL 1

- Section 16.1.16 on page 471, line 45 (passed on Sep. 21, 2012).
  The constant MPI::_LONG_LONG should be MPI::LONG_LONG.

- Annex A.1.1, Table on page 517, lines 34, and 37-41 (passed on July 17, 2012).
  The C++ datatype handles MPI::INTEGER16, MPI::REAL16, MPI::F_COMPLEX4, MPI::F_COMPLEX8, MPI::F_COMPLEX16, MPI::F_COMPLEX32 were added to the table.