

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, 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

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

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- 4 • 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
 5 27, 164, 433, 472 and 513 (passed on July 16-19, 2012).
 6 New named predefined datatypes `MPI_CXX_BOOL`, `MPI_CXX_FLOAT_COMPLEX`,
 7 `MPI_CXX_DOUBLE_COMPLEX`, and `MPI_CXX_LONG_DOUBLE_COMPLEX` were added
 8 in C and Fortran corresponding to the C++ types `bool`, `std::complex<float>`,
 9 `std::complex<double>`, and `std::complex<long double>`. These datatypes also
 10 correspond to the deprecated C++ predefined datatypes `MPI::BOOL`,
 11 `MPI::COMPLEX`, `MPI::DOUBLE_COMPLEX`, and `MPI::LONG_DOUBLE_COMPLEX`.
 12 The non-standard C++ types `Complex<...>` were substituted by the standard types
 13 `std::complex<...>`.
 - 14 • Section 5.9.2, page 165, line 47 (passed on July 16-19, 2012).
 15 `MPI_C_COMPLEX` was added to the “Complex” reduction group.
 - 16
 - 17 • Section 7.5.5 on page 257, C++ interface on page 264, line 3 (passed on July 16-19,
 18 2012).
 19 The argument `rank` was removed and `in/outdegree` are now defined as `int& indegree`
 20 and `int& outdegree` in the C++ interface of `MPI_DIST_GRAPH_NEIGHBORS_COUNT`.
 - 21
 - 22 • Section 13.5.2 page 433 line 22 table 13.2 (passed on Dec. 11, 2009). Change:
 23
 24 `MPI_C_BOOL 4`
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 26 To:
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 28 `MPI_C_BOOL 1`
 - 29
 - 30 • Section 16.1.16 on page 471, line 45 (passed on Sep. 21, 2012).
 31 The constant `MPI::_LONG_LONG` should be `MPI::LONG_LONG`.
 - 32
 - 33 • Annex A.1.1, Table on page 517, lines 34, and 37-41 (passed on July 17, 2012).
 34 The C++ datatype handles `MPI::INTEGER16`, `MPI::REAL16`, `MPI::F_COMPLEX4`,
 35 `MPI::F_COMPLEX8`, `MPI::F_COMPLEX16`, `MPI::F_COMPLEX32` were added to the
 36 table.
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