

D R A F T

Document for a Standard Message-Passing Interface

Message Passing Interface Forum

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Chapter 20

Removed Interfaces

20.1 Removed MPI-1 Bindings

20.1.1 Overview

The following MPI-1 bindings were deprecated as of MPI-2 and are removed in MPI-3. They may be provided by an implementation for backwards compatibility, but are not required. Removal of these bindings affects all language-specific definitions thereof. Only the language-neutral bindings are listed when possible.

20.1.2 Removed MPI-1 Functions

Table 20.1 shows the removed MPI-1 functions and their replacements.

Removed	MPI-2 Replacement
MPI_ADDRESS	MPI_GET_ADDRESS
MPI_ERRHANDLER_CREATE	MPI_COMM_CREATE_ERRHANDLER
MPI_ERRHANDLER_GET	MPI_COMM_GET_ERRHANDLER
MPI_ERRHANDLER_SET	MPI_COMM_SET_ERRHANDLER
MPI_TYPE_EXTENT	MPI_TYPE_GET_EXTENT
MPI_TYPE_HINDEXED	MPI_TYPE_CREATE_HINDEXED
MPI_TYPE_HVECTOR	MPI_TYPE_CREATE_HVECTOR
MPI_TYPE_LB	MPI_TYPE_GET_EXTENT
MPI_TYPE_STRUCT	MPI_TYPE_CREATE_STRUCT
MPI_TYPE_UB	MPI_TYPE_GET_EXTENT

Table 20.1: Removed MPI-1 functions and their replacements

20.1.3 Removed MPI-1 Datatypes

Table 20.2 shows the removed MPI-1 datatypes and their replacements.

20.1.4 Removed MPI-1 Constants

Table 20.3 shows the removed MPI-1 constants. There are no MPI-2 replacements.

Removed	MPI-2 Replacement
MPI_LB	MPI_TYPE_CREATE_RESIZED
MPI_UB	MPI_TYPE_CREATE_RESIZED

Table 20.2: Removed MPI-1 datatypes and their replacements

Removed MPI-1 Constants
C type: <code>const int</code> (or unnamed <code>enum</code>)
Fortran type: <code>INTEGER</code>
MPI_COMBINER_HINDEXED_INTEGER
MPI_COMBINER_HVECTOR_INTEGER
MPI_COMBINER_STRUCT_INTEGER

Table 20.3: Removed MPI-1 constants

20.1.5 Removed MPI-1 Callback Prototypes

Table 20.4 shows the removed MPI-1 callback prototypes and their MPI-2 replacements.

Removed	MPI-2 Replacement
MPI_Handler_function	MPI_Comm_errhandler_function

Table 20.4: Removed MPI-1 callback prototypes and their replacements

20.2 C++ Bindings

The C++ bindings were deprecated as of MPI-2.2. The C++ bindings are removed in MPI-3.0. The namespace is still reserved, however, and bindings may only be provided by an implementation as described in the MPI-2.2 standard.

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