

Chapter 1

Errata for MPI-2

This document was processed on May 20, 1998.

The known corrections to MPI-2 are listed in this document. All page and line numbers are for the official version of the MPI-2 document available from the MPI Forum home page at <http://www.mpi-forum.org>. Information on reporting mistakes in the MPI documents is also located on the MPI Forum home page.

- Page 24, lines 20-21 read
MPI_FINALIZE is collective on MPI_COMM_WORLD.
but should read
MPI_FINALIZE is collective over all connected processes. If no processes were spawned, accepted or connected then this means over MPI_COMM_WORLD; otherwise it is collective over the union of all processes that have been and continue to be connected.
- Page 27, line 26 reads
must be added to line 3 of page 54.
but should read
must be added to line 3 of page 52.
- Page 69, lines 14-15 read
MPI::Datatype MPI::Datatype::Resized(const MPI::Aint lb,
const MPI::Aint extent) const

but should read
MPI::Datatype MPI::Datatype::Create_resized(const MPI::Aint lb,
const MPI::Aint extent) const
- Page 94, line 29 reads
are the original sets of of processes.
but should read
are the original sets of processes.
- Page 162, lines 43-44 curenly read
The “in place” option for intracommunicators is specified by passing the value MPI_IN_PLACE to the argument **sendbuf** at the root.

but should read

The “in place” option for intracommunicators is specified by passing the value `MPI_IN_PLACE` to the argument `sendbuf` at all processes.

- Page 165, lines 4–22 read

IN	sendcounts	integer array equal to the group size specifying the number of elements to send to each processor (integer)
IN	sdispls	integer array (of length group size). Entry <i>j</i> specifies the displacement in bytes (relative to <code>sendbuf</code>) from which to take the outgoing data destined for process <i>j</i>
IN	sendtypes	array of datatypes (of length group size). Entry <i>j</i> specifies the type of data to send to process <i>j</i> (handle)
OUT	recvbuf	address of receive buffer (choice)
IN	recvcounts	integer array equal to the group size specifying the number of elements that can be received from each processor (integer)
IN	rdispls	integer array (of length group size). Entry <i>i</i> specifies the displacement in bytes (relative to <code>recvbuf</code>) at which to place the incoming data from process <i>i</i>
IN	recvtypes	array of datatypes (of length group size). Entry <i>i</i> specifies the type of data received from process <i>i</i> (handle)

but should read

IN	sendcounts	integer array equal to the group size specifying the number of elements to send to each processor (array of integers)	1 2 3
IN	sdispls	integer array (of length group size). Entry j specifies the displacement in bytes (relative to sendbuf) from which to take the outgoing data destined for process j (array of integers)	4 5 6 7
IN	sendtypes	array of datatypes (of length group size). Entry j specifies the type of data to send to process j (array of handles)	8 9 10
OUT	recvbuf	address of receive buffer (choice)	11
IN	recvcounts	integer array equal to the group size specifying the number of elements that can be received from each processor (array of integers)	12 13 14
IN	rdispls	integer array (of length group size). Entry i specifies the displacement in bytes (relative to recvbuf) at which to place the incoming data from process i (array of integers)	15 16 17 18
IN	recvtypes	array of datatypes (of length group size). Entry i specifies the type of data received from process i (array of handles)	19 20 21 22 23
<ul style="list-style-type: none"> Page 250, line 8 reads with 15 exponent bits, bias = +10383, 112 fraction bits, but should read with 15 exponent bits, bias = +16383, 112 fraction bits, 			24 25 26 27 28
<ul style="list-style-type: none"> Page 273, line 24 reads 			29 30 31
<pre>void Send(void* buf, int count, const MPI::Datatype& type,</pre>			32 33
but should read			34 35 36
<pre>void Send(const void* buf, int count, const MPI::Datatype& type,</pre>			37 38
<ul style="list-style-type: none"> Page 332, lines 23-24 read MPI::Datatype MPI::Datatype::Resized(const MPI::Aint lb, const MPI::Aint extent) const 			39 40 41 42
but should read			43
<pre>MPI::Datatype MPI::Datatype::Create_resized(const MPI::Aint lb, const MPI::Aint extent) const</pre>			44 45 46
<ul style="list-style-type: none"> Page 354, line 17 reads 			47 48

1 void Get_version(int& version, int& subversion);

2

3 but should read

4

5 void Get_version(int& version, int& subversion)

6

7 • Page 354, lines 25-30 read

8

9 Exception::Exception(int error_code);

10

11 int Exception::Get_error_code() const;

12

13 int Exception::Get_error_class() const;

14

15 const char* Exception::Get_error_string() const;

16

17 but should read

18

19 Exception::Exception(int error_code)

20

21 int Exception::Get_error_code() const

22

23 int Exception::Get_error_class() const

24

25 const char* Exception::Get_error_string() const

26

27 • Page 357, line 24 reads

28 MPI_CART_RANK Cartcomm Get_rank int rank

29

30 but should read

31 MPI_CART_RANK Cartcomm Get_cart_rank int rank

32

33 • Page 359, line 27 reads

34 MPI_TOPO_TEST Comm Get_topo int status

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36 but should read

37 MPI_TOPO_TEST Comm Get_topology int status

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