

Datatypes Chapter Changes In MPI 4.1

MPI Forum Meeting, September 2023, Bristol, UK
On behalf of the Datatypes Chapter Committee

Change Overview: Minor Edits

[#871](#): Update to Credits
[#864](#): Pre RC4.1 fixes for the Datatypes chapter
[#850](#): Review use of %ALLOWLATEX% and address issues; fix LaTeX warnings in document.
[#823](#): 'Pending communication' not defined in definition of MPI_Comm_disconnect
[#798](#): Add MPI_Type_get_value_index as a function
[#832](#): Second attempt to apply PR 829 changes
~~[#831](#).. Revert "Merge pull request #829 from Wee Free Scot/Issue518_Deprecate X procedures"~~
~~[#829](#).. Deprecate X procedures~~
[#782](#): Reference the correct function.
[#789](#): Remove MPI_COMBINER_STRUCT_INTEGER.
[#731](#): fix stray verbatim in datatypes
[#706](#): Miscellaneous minor edits
[#702](#): Improve primary index entries
[#698](#): Editor fixes
[#697](#): Improve example index

[#689](#): Fix table formatting and squash overfull boxes
[#686](#): Consistent formatting for lists of MPI constants and objects. There may be more to do; this captured the lists identified in issue 242.
[#685](#): Replaces use of \const with more specific macros
[#683](#): Which hunt - replace with that where appropriate
[#680](#): Correct use of paragraph command
[#679](#): Consistent formatting for itemize lists
[#677](#): Change non-xxx to nonxxx in most cases.
[#631](#): Implementation of enhanced example index. Generated document does not take advantage of these new features in the index, though the LaTeX source is clearer.
[#656](#): This has been waiting for reviews for months. I am assuming that no issues noted means this is ok. As this is solely formatting changes, these should not cause problems. Any issues can be addressed with a subsequent PR.
[#654](#): Correct spelling of executed in datatypes chapter
[#642](#): After review by all chapters, merging the new format changes.
[#639](#): Fix type in MPI_TYPE_DUP.

```
% git log --first-parent --pretty=format:"%Cred%h%Creset %cs %Cgreen%<(25,trunc)%s%Creset %b" mpi-4.0..HEAD - datatypes.tex
```

Visual diff: <https://draftable.com/compare/mnESxvKsXYhM>

Environmental Management Chapter Changes In MPI 4.1

MPI Forum Meeting, September 2023, Bristol, UK
On behalf of the Inquiry Chapter Committee

Change Overview

[#166](#): Add functions to remove error objects
[#834](#): Use MPI standard, not Standard
[#833](#): Update for getlatex and fixes for explicit font commands
[#826](#): Move the new figures to the correct location
[#814](#): Use proper term for error codes, return codes, raise errors (Issue 671)
[#790](#): **Issue57 deprecate mpi host**
[#644](#): Wgft/errh session initial clarification
[#762](#): **New functions to query hardware resource names (issue #154)**
[#771](#): Remove (P)MPI_Wtime and (P)MPI_Wtick from list of allowed macros
[#722](#): Deprecate mpif.h
[#795](#): Fixes to distinguish MPI error codes and MPI_T return codes
[#755](#): Environment - Fix code examples
[#784](#): Add a way to suppress implicit none in Fortran example code fragments that include "USE" statements
[#778](#): Enhance the compile check feature

[#657](#): **MPI_LASTUSED CODE - qualify when available**
[#693](#): Review use of emph where mpindex should be used
[#689](#): Fix table formatting and squash overfull boxes
[#686](#): Consistent formatting for lists of MPI constants and objects. There may be more to do; this captured the lists identified in issue 242.
[#685](#): Replaces use of \const with more specific macros
[#683](#): Which hunt - replace with that where appropriate
[#631](#): [...enhanced example index...]
[#656](#): [...Code (re)formatting...]
[#633](#): Add error class MPI_ERR_ERRHANDLER
[#642](#): After review by all chapters, merging the new format changes.
[#630](#): v4.x: remove dead code and comments

% git log --first-parent --pretty=format:"%Cred%h%Creset %cs %Cgreen%<(25,trunc)%s%Creset %b" mpi-4.0..HEAD - inquiry.tex

Visual diff: <https://draftable.com/compare/ItcNopEGcyFg>

#790: Issue57 deprecate mpi host

Nothing much to see except the deprecation of MPI_HOST and the removal of the text about host process

#166: Add functions to remove error objects

Add procedures **MPI_REMOVE_ERROR_CLASS**,
MPI_REMOVE_ERROR_CODE, **MPI_REMOVE_ERROR_STRING** to
complement the procedures adding error classes/codes/strings

#762: New functions to query hardware resource names

Added **MPI_GET_HW_RESOURCE_INFO** allowing to query the various hardware resource available on a system in order to perform a hardware-based splitting in **MPI_Comm_split_type**

#883: Typos

This is definitively last minute, but it fixes a typo, merges a few one-line paragraphs and allows the Example 9.4 to be on a single page.