Errata for MPI-3.1

This document was processed on July 6, 2022.

The known corrections to MPI-3.1 are listed in this document. All page and line numbers are for the official version of the MPI-3.1 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.

This is a DRAFT and is not official. It may contain errata items that are currently under discussion and have not yet been voted in by the MPI Forum. Such items are marked as Pending Errata:

- Page 53, lines 24–25 reads:

  Any other type of request is and the request handle is set to
  MPIREQUEST_NULL. MPI_WAIT is a non-local operation.

  but should be:

  Any other type of request is deallocated and the request handle is set to
  MPIREQUEST_NULL. MPI_WAIT is a non-local operation.

- Page 330 lines 17–18 reads:

  ! Set process grid size and periodicity
  CALL MPI_DIMS_CREATE(comm, ndims, dims, ierr)

  but should read:

  CALL MPI_COMM_SIZE(comm, comm_size, ierr)
  ! Set process grid size and periodicity
  CALL MPI_DIMS_CREATE(comm_size, ndims, dims, ierr)

  In addition, add comm_size to the declaration on line 11:

  INTEGER comm, comm_size, comm_cart, dims(ndims), ierr

- Page 577, line 7 reads:

  if (err!=MPI_SUCCESS || err!=MPI_T_ERR_INVALID_INDEX) return err;
but should read:

```c
if (err!=MPI_SUCCESS && err!=MPI_T_ERR_INVALID_INDEX) return err;
```

- Page 483, line 47 reads:

  ```c
  LOGICAL, INTENT(OUT) :: flag
  ```

  but should read:

  ```c
  LOGICAL, INTENT(IN) :: flag
  ```

- Page 448, line 3 reads:

  ```c
  MPI_WIN_ALLOCATE (Section 11.2.2), or attached with
  MPI_WIN_ATTACH
  ```

  but should read:

  ```c
  MPI_WIN_ALLOCATE (Section 11.2.2), MPI_WIN_ALLOCATE_SHARED (Sec-
  tion 11.2.3), or attached with MPI_WIN_ATTACH
  ```

- Page 658, lines 9 and 28 are missing a `const`. Specifically, line 9 reads:

  ```c
  int MPI_Status_f2f08(MPI_Fint *f_status, MPI_F08_status *f08_status)
  ```

  but should read:

  ```c
  int MPI_Status_f2f08(const MPI_Fint *f_status, MPI_F08_status *f08_status)
  ```

  and line 28 reads:

  ```c
  int MPI_Status_f082f(MPI_F08_status *f08_status, MPI_Fint *f_status)
  ```

  but should read:

  ```c
  int MPI_Status_f082f(const MPI_F08_status *f08_status, MPI_Fint *f_status)
  ```

- Page 690, line 23 should have new text added below it:

  ```c
  mpi_assert_allow_overtaking
  mpi_assert_exact_length
  mpi_assert_no_any_source
  mpi_assert_no_any_tag
  mpi_assert_strict_start_ordering
  mpi_optimization_goal
  mpi_reuse_count
  ```