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
  MPI_REQUEST_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
  MPI_REQUEST_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:

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

- Page 483, line 47 reads:

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

but should read:

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

- Page 448, line 3 reads:

    MPI_WIN_ALLOCATE (Section 11.2.2), or attached with
    MPI_WIN_ATTACH

but should read:

    MPI_WIN_ALLOCATE (Section 11.2.2), MPI_WIN_ALLOCATE_SHARED (Section 11.2.3), or attached with MPI_WIN_ATTACH

- Page 658, lines 9 and 28 are missing a const. Specifically, line 9 reads:
```
int MPI_Status_f2f08(MPI_Fint *f_status, MPI_F08_status *f08_status)
```

but should read:
```
int MPI_Status_f2f08(const MPI_Fint *f_status, MPI_F08_status *f08_status)
```

and line 28 reads:
```
int MPI_Status_f082f(MPI_F08_status *f08_status, MPI_Fint *f_status)
```

but should read:
```
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:

```
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
```