

H5LT_MAKE_DATASET

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H5LT_MAKE_DATASET

Creates and writes a dataset of a type `type_id`.

Procedure:

`H5LT_MAKE_DATASET(loc_id, dset_name, rank, dims, type_id, buffer)`

Signature:

```
herr_t H5Ltmake_dataset ( hid_t loc_id, const char *dset_name, int rank, const hsize_t *dims, hid_t  
type_id, const void*buffer )
```

Fortran90:

```
subroutine h5ltmake_dataset_f(loc_id, dset_name, rank, dims, type_id, &  
    buf, errcode)  
  
    implicit none  
    integer(HID_T), intent(IN) :: loc_id           ! file or group identifier  
    character(LEN=*), intent(IN) :: dset_name      ! name of the dataset  
    integer, intent(IN) :: rank                   ! rank  
    integer(HSIZE_T), dimension(*), intent(IN) :: dims  
    integer, intent(IN) :: buf                    ! size of the buffer buf  
    integer(HID_T), intent(IN) :: type_id         ! datatype identifier  
    , intent(IN), dimension(*) :: buf            ! data buffer  
    integer :: errcode                            ! error code  
end subroutine h5ltmake_dataset_f
```

Fortran2003:

```

subroutine h5ltmake_dataset_f(loc_id, dset_name, rank, dims, type_id, &
                             buf, errcode)
  implicit none
  integer(HID_T), intent(IN) :: loc_id           ! file or group identifier
  character(LEN=*), intent(IN) :: dset_name     ! name of the dataset
  integer, intent(IN) :: rank                  ! rank
  integer(HSIZE_T), dimension(*), intent(IN) :: dims
                                           ! size of the bufffer buf
  integer(HID_T), intent(IN) :: type_id        ! datatype identifier
  type(C_PTR), intent(IN) :: buf              ! data buffer
  integer :: errcode                           ! error code
end subroutine h5ltmake_dataset_f

```

Parameters:

| | |
|-------------------------------|---|
| <i>hid_t</i> loc_id | IN: Identifier of the file or group to create the dataset within. |
| <i>const char *</i> dset_name | IN: The name of the dataset to create. |
| <i>int</i> rank | IN: Number of dimensions of dataspace. |
| <i>const hsize_t *</i> dims | IN: An array of the size of each dimension. |
| <i>hid_t</i> type_id | IN: Identifier of the datatype to use when creating the dataset. |
| <i>const void *</i> buffer | IN: Buffer with data to be written to the dataset. |

Description:

H5LTmake_dataset creates and writes a dataset named `dset_name` attached to the object specified by the identifier `loc_id`.

The parameter `type_id` can be any valid HDF5 [predefined native datatype](#); For example, setting `type_id` to `H5T_NATIVE_INT` will result in a dataset of *signed integer* datatype.

Returns:

Returns a non-negative value if successful; otherwise returns a negative value.

Example:

Coming Soon!

History:

| Release | Change |
|---------|---|
| 1.8.7 | Fortran subroutine modified in this release to accomodate arrays with more than three dimensions. |
| 1.10.0 | Fortran 2003 subroutine added to accept a C address of the data buffer. |