

H5LR_MAKE_DATASET

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H5LR_MAKE_DATASET

Creates and writes a dataset containing a list of region references.

Procedure:

H5LR_MAKE_DATASET(loc_id, path, type_id, num_elem, obj_id, buf)

Signature:

```
herr_t H5LRmake_dataset( hid_t loc_id, const char *path, hid_t type_id, const size_t num_elem, const hid_t *obj_id, const hdsset_reg_ref_t *buf )
```

```

SUBROUTINE H5LRmake_dataset_f(loc_id, path, type_id, &
    buf_size, loc_id_ref, ref, error)

    IMPLICIT NONE

    INTEGER(hid_t), INTENT(IN) :: loc_id                ! Location identifier of the dataset to
be created
    CHARACTER(LEN=*), INTENT(IN) :: path                ! Path to the dataset being created
    INTEGER(hid_t), INTENT(IN) :: type_id                ! Datatype of the dataset
    INTEGER(size_t) :: buf_size                          ! Size of the obj_id and buf arrays
    INTEGER(hid_t), DIMENSION(1:buf_size), INTENT(IN) :: loc_id_ref ! Array of object identifiers; each
identifier describes
                                                                ! to which HDF5 file the corresponding
region
                                                                ! reference belongs to
    TYPE(hdset_reg_ref_t_f), DIMENSION(1:buf_size), INTENT(IN) :: ref ! Array of region references
    INTEGER, INTENT(OUT) :: error                        ! Error code:
                                                                ! 0 on success and -1 on failure

END SUBROUTINE H5LRmake_dataset_f

```

Parameters:

<i>hid_t</i> loc_id		IN: Location identifier of the dataset to be created
<i>const char *</i> path		IN: Path to the dataset being created
<i>hid_t</i> type_id		IN: Datatype of the dataset
<i>const size_t</i> num_elem		IN: Size of the obj_id and buf arrays
<i>const hid_t *</i> obj_id		IN: Array of object identifiers; each identifier describes to which HDF5 file the corresponding region reference belongs to
<i>const hdset_reg_ref_t *</i> buf		IN: Array of region references

Description:

Given an array of size `num_elem` of region references `buf`, the function will create a dataset with path `path`, at location specified by `loc_id` and of a datatype specified by `type_id`, and will write data associated with each region reference in the order corresponding to the order of the region references in the buffer. It is assumed that all referenced hyperslabs have the same dimensionality, and only the size of the slowest changing dimension may differ. Each reference in the `buf` array belongs to the file identified by the corresponding object identifiers in the array `obj_id`.

If `path` does not exist in `loc_id` then the function will create the path specified by `path` automatically.

Returns:

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

Example:

Coming Soon!

History:

Release	Change
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1.0	C function introduced in this release.
1.1	Fortran wrapper introduced in this release.

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