

H5S_SET_EXTENT_SIMPLE

[Expand all](#) [Collapse all](#)

- [Jump to ...](#)
- [Summary](#)
- [Description](#)
- [Example](#)
- [Switch language ...](#)
- [C](#)
- [C++](#)
- [FORTRAN](#)
- [JAVA](#)

[Summary](#)
[Description](#)
[Example](#)
[JAVA](#)
[FORTRAN](#)
[C++](#)
[C](#)

H5S_SET_EXTENT_SIMPLE

Sets or resets the size of an existing dataspace

Procedure:

H5S_SET_EXTENT_SIMPLE (space_id, rank, current_size, maximum_size)

Signature:

```
herr_t H5Sset_extent_simple(  
    hid_t space_id,  
    int rank,  
    const hsize_t *current_size,  
    const hsize_t *maximum_size  
)
```

Fortran90 Interface: h5sset_extent_simple_f

```
SUBROUTINE h5sset_extent_simple_f(space_id, rank, current_size,
                                maximum_size, hdferr)
    IMPLICIT NONE
    INTEGER(HID_T), INTENT(IN) :: space_id      ! Dataspace identifier
    INTEGER, INTENT(IN) :: rank                ! Dataspace rank
    INTEGER(HSIZE_T), DIMENSION(rank), INTENT(IN) :: current_size
                                                ! Array with the new sizes
                                                ! of dimensions
    INTEGER(HSIZE_T), DIMENSION(rank), INTENT(IN) ::
                                                ! Array with the new maximum
                                                ! sizes of dimensions
    INTEGER, INTENT(OUT) :: hdferr             ! Error code
                                                ! 0 on success and -1 on failure
END SUBROUTINE h5sset_extent_simple_f
```

Parameters:

<i>hid_t</i> space_id	IN: Dataspace identifier
<i>int</i> rank	IN: Rank, or dimensionality, of the dataspace
<i>const hsize_t</i> *current_size	IN: Array containing current size of dataspace
<i>const hsize_t</i> *maximum_size	IN: Array containing maximum size of dataspace

Description:

H5S_SET_EXTENT_SIMPLE sets or resets the size of an existing dataspace.

rank is the dimensionality, or number of dimensions, of the dataspace.

current_size is an array of size rank which contains the new size of each dimension in the dataspace. maximum_size is an array of size rank which contains the maximum size of each dimension in the dataspace.

Any previous extent is removed from the dataspace, the dataspace type is set to H5S_SIMPLE, and the extent is set as specified.

Note that a dataset must be chunked if current_size does not equal maximum_size.

Returns:

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

Example:

```
examples / h5_attribute.c [105:106] 1.10/master H5FFV/hdf5
aidl = H5Screate(H5S_SIMPLE);
ret = H5Sset_extent_simple(aidl, ARANK, adim, NULL);
```

Coming Soon!

History:

None

--- Last Modified: May 03, 2019 | 02:39 PM

