H5S_IS_REGULAR_HYPERSLAB

H5S_IS_REGULAR_HYPERSLAB

Determines whether a hyperslab selection is regular

Procedure:

H5S_IS_REGULAR_HYPERSLAB (space_id)

Signature:

```
htri_t H5Sis_regular_hyperslab(
        hid_t space_id
        )
```

```
Fortran Interface: h5sis_regular_hyperslab_f

Signature:
  SUBROUTINE h5sis_regular_hyperslab_f(space_id, IsRegular, hdferr)
    INTEGER(HID_T), INTENT(IN) ::  space_id
    LOGICAL :: IsRegular
    INTEGER, INTENT(OUT) :: hdferr


Inputs:
  space_id  - The identifier of the dataspace.


Outputs:
  IsRegular - TRUE or FALSE for hyperslab selection if successful.
  hdferr    - Returns 0 if successful and -1 if fails.
```

Parameters:

hid_t space_id	IN: The identifier of the dataspace

Description:

H5S_IS_REGULAR_HYPERSLAB takes the dataspace identifier, space_id, and queries the type of the hyperslab selection.

A regular hyperslab selection is a hyperslab selection described by setting the offset, stride, count, and block parameters for a single H5S_SELECT_HYPERSLAB call. If several calls to H5S_SELECT_HYPERSLAB are needed, then the hyperslab selection is irregular.

Returns:

Returns TRUE or FALSE for hyperslab selection if successful.
Returns FAIL on error or when querying other selection types such as point selection.

Example:

examples / h5_vds.c [205:211] 1.10/master HDFFV/hdf5

```
if (H5Sis_regular_hyperslab(vspace)) {
                status = H5Sget_regular_hyperslab (vspace, start_out, stride_out,
count_out, block_out);
                printf("         start  = [%llu, %llu] \n", (unsigned long
long)start_out[0], (unsigned long long)start_out[1]);
                printf("         stride = [%llu, %llu] \n", (unsigned long
long)stride_out[0], (unsigned long long)stride_out[1]);
                printf("         count  = [%llu, %llu] \n", (unsigned long
long)count_out[0], (unsigned long long)count_out[1]);
                printf("         block  = [%llu, %llu] \n", (unsigned long
long)block_out[0], (unsigned long long)block_out[1]);
            }
```

Coming Soon!

History:

Release	Change
1.10.0	C function introduced with this release.

--- Last Modified: May 03, 2019 | 02:08 PM