

H5S_COMBINE_HYPERSLAB

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H5S_COMBINE_HYPERSLAB

Performs an operation on a hyperslab and an existing selection and returns the resulting selection

Procedure:

H5S_COMBINE_HYPERSLAB (space_id, op, start, stride, count, block)

Signature:

```
hid_t H5Scombine_hyperslab ( hid_t space_id, H5S_seloper_t op, const hsize_t start[],  
                             const hsize_t stride[], const hsize_t count[], const hsize_t block[] )
```

Parameters:

<i>hid_t</i> space_id	IN: Dataspace identifier of the selection to use
<i>H5S_seloper_t</i> op	IN: Operation to perform on the current selection
<i>const hsize_t</i> start[]	IN: Offset of the start of of the hyperslab
<i>const hsize_t</i> stride[]	IN: Hyperslab stride
<i>const hsize_t</i> count[]	IN: Number of blocks included in the hyperslab
<i>const hsize_t</i> block[]	IN: Size of a block in the hyperslab

Description:

H5S_COMBINE_HYPERSLAB combines a hyperslab selection specified by `start`, `stride`, `count` and `block` with the current selection for the dataspace `space_id`, creating a new dataspace to return the generated selection. If the current selection is not a hyperslab, it is freed and the hyperslab parameters passed in are combined with the H5S_SEL_ALL hyperslab (ie. a selection composing the entire current extent). If either `stride` or `block` is NULL, then it will be set to 1.

Returns:

Dataspace identifier on success / H5I_INVALID_HID on failure

Example:

```
test / tselect.c [5199:5204]                                hdf5_1_12    HDFFV/hdf5
hsize_t start_out[2] = {0, 3}; /* Hyperslab offset in memory */
int      data[6][5];          /* Data to write */
int      data_out[7][7];     /* Data read in */
int      input_loc[8][2]    = {{0, 0}, {1, 0}, {2, 0}, {2, 1}, {3, 1}, {4, 1}, {4,
2}, {5, 2}};
int      output_loc[8][2]   = {{0, 3}, {0, 4}, {1, 3}, {1, 4}, {2, 3}, {2, 4}, {3,
3}, {3, 4}};
int      dsetrank           = 2; /* File Dataset rank */
```

History:

Release	Change
1.10.7, 1.12.0	Function introduced in this release.