

H5A_ITERATE1

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H5A_ITERATE1

Calls a user's function for each attribute on an object (DEPRECATED)

This function is deprecated in favor of the function [H5A_ITERATE2](#).

Procedure:

H5A_ITERATE1 (loc_id, idx, op, op_data)

Signature:

```
herr_t H5Aiterate1(  
    hid_t loc_id,  
    unsigned * idx,  
    H5A_operator1_t op,  
    void *op_data  
)
```

Parameters:

<i>hid_t</i> loc_id	IN: Identifier of group, dataset or named datatype
<i>unsigned *</i> idx	IN/OUT: Starting (IN) and ending (OUT) attribute index
<i>H5A_operator1_t</i> op	IN: User's function to pass each attribute to
<i>void *</i> op_data	IN/OUT: User's data to pass through to iterator operator function

Description:

H5A_ITERATE1 iterates over the attributes of the object specified by its identifier, `loc_id`. The object can be a group, dataset, or named datatype. For each attribute of the object, the `op_data` and some additional information specified below are passed to the operator function `op`. The iteration begins with the attribute specified by its index, `idx`; the index for the next attribute to be processed by the operator, `op`, is returned in `idx`. If `idx` is the null pointer, then all attributes are processed.

The prototype for `H5A_operator_t` is:

```
typedef herr_t (*H5A_operator1_t)(hid_t loc_id, const char *attr_name, void *operator_data);
```

The operation receives the identifier for the group, dataset or named datatype being iterated over, `loc_id`, the name of the current attribute about the object, `attr_name`, and the pointer to the operator data passed in to `H5A_ITERATE1`, `op_data`. The return values from an operator are:

- Zero causes the iterator to continue, returning zero when all attributes have been processed.
- Positive causes the iterator to immediately return that positive value, indicating short-circuit success. The iterator can be restarted at the next attribute.
- Negative causes the iterator to immediately return that value, indicating failure. The iterator can be restarted at the next attribute.

Returns:

If successful, returns the return value of the last operator if it was non-zero, or zero if all attributes were processed. Otherwise returns a negative value.

Example:

Coming Soon!

History:

Release	C
1.8.0	The function <code>H5Aiterate</code> renamed to <code>H5Aiterate1</code> and deprecated in this release.

--- Last Modified: May 08, 2018 | 10:15 AM