

H5LT_DTYPE_TO_TEXT

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H5LT_DTYPE_TO_TEXT

Creates a text description of an HDF5 datatype

Procedure:

H5LT_DTYPE_TO_TEXT (datatype, str, lang_type, len)

Signature:

```
herr_t H5LTdtype_to_text(hid_t datatype, char* str, H5LT_lang_t lang_type, size_t* len)
```

Parameters:

<i>hid_t</i> datatype	IN: Identifier of the datatype to be converted
<i>char*</i> str	OUT: Buffer for the text description of the datatype
<i>H5LT_lang_t</i> lang_type	IN: The language used to describe the datatype. The currently supported language is H5LT_DDL
<i>size_t*</i> len	OUT: the size of buffer needed to store the text description

Description:

Given an HDF5 datatype identifier, this function creates a description of this datatype in lang_type language format.

A preliminary H5LTdtype_to_text call can be made to determine the size of the buffer needed with a NULL passed in for str. This value is

returned as `len`. That value can then be assigned to `len` for a second `H5Ttype_to_text` call, which will retrieve the actual text description for the datatype.

If `len` is not big enough for the description, the text description will be truncated to fit in the buffer.

Currently only DDL (`H5LT_DDL`) is supported for `lang_type`. The complete DDL definition of HDF5 data types can be found in the last chapter of the *HDF5 User's Guide*. An example of DDL definition of `enum` type is shown as follows.

```
"H5T_ENUM { H5T_NATIVE_INT;  
            "Bob"      0;  
            "Elena"    1;  
            "Quincey"  2;  
            "Frank"    3;      }"
```

Returns:

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

Example:

Coming Soon!

--- Last Modified: August 13, 2019 | 01:31 PM