Subject: Re: HDF4 dimension attributes in IDL Posted by James Kuyper on Fri, 02 Feb 2007 16:46:56 GMT

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Eric Winter wrote:

> Hi all,

>

- > I'm having trouble with an IDL/HDF4 problem, and I was hoping someone
- > could point me at the correct solution. We are assigning attributes like
- > unitsCategory and scaleType to HDF dimension objects in our HDF4 files.
- > Not a big deal, in theory, since the HDF documentation from NCSA
- > discusses doing this.

>

- > However, I can't seem to find a way to do it in IDL. I can easily add
- > and read attributes to SDS objects using IDL, but the only
- > dimension-related routines seem to be HDF_SD_DIMGET, HDF_SD_DIMSET, and
- > HDF_SD_DIMGETID. The documentation for those routines indicates you can
- > ask for a count of the attributes on a dimension, but there is no
- > mention on how to set or read those attributes.

An HDF dimension is simply a specialized kind of one-dimensional SDS that is it's own only dimension. As a result, you can use the dim_id that you get from HDF_SD_DIMGETID() as the sds_id argument in all applicable HDF_SD_* functions.

dim_id = HDF_SD_DIMGETID(sddataset_id, dimension_number)

To write an attribute:

HDF SD ATTRSET,dim_id, attribute_name, value_to_write

To read an attribute:

attr_index = HDF_SD_ATTRFIND(dim_id, attribute_name) HDF_SD_ATTRINFO, dim_id, attr_index, data=value_read