Subject: Re: HDF interface
Posted by R.Bauer on Thu, 29 Nov 2001 08:42:34 GMT
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Daniel Peduzzi wrote:
>
> James Kuyper Jr. wrote in message <3C0531B9.10707@gsfc.nasa.gov>...
>> Daniel Peduzzi wrote:
>>
>>> Using IDL's HDF interface, does anybody know how to remove or rename
>>> SD datasets within an HDF file?
>>>
>>> Dan
>>
>> HDF isn't good about deleting or renaming things. The best you can do is
>> create a new file by copying all the parts of the old file that you want
>> to keep, while dropping or renaming the parts you want to drop or
>> rename. Very annoying. HDF provides routines for deleting or renaming
>> Vgroups, but not for anything else. HDF_DELDD doesn't actually delete an
>> object from an HDF file, it just removes it from the list of data
>> descriptors. The deleted object still takes up space (which can be
>> released by using the hdfpack routine).
>>
>
> Excellent, thanks for the info.
>
> Next question: does anyone have a good HDF to NetCDF converter? ;-)
>
> Dan

Dear Dan,

in principle I have one.

I have a read_hdf/write_hdf and a read_ncdf/write_ncdf routine
which are uses the same data structure.
But it depends on a static definition of possible attributes for the
files.
So I have defined in a definition file how e.g. pi_name, _FillValue is
written.

If you are able to see a chance to write a definition like this example
for your
data you will be able to use a lot of icg-data-structure routines.

For example I show you our definition and the one I am using reading
nilu HDF
files in our structure.

This is our definition
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_ work/rb_lib/def_icg.pro

This is a smaller one which shows what is really necessary.
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_ work/rb_lib/def_nilu.pro
This structure is a bit different to our data structure.

To adjust this structure to an ICG-DATA-STRUCTURE I am using a routine
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_ html/dbase/download/ad_nilu2icgs.tar.gz
result=ad_nilu2icgs(read_hdf('nilu.hdf',def='def_nilu'))

The following are the routines for read_hdf and write_ncdf
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_ html/dbase/download/read_hdf.tar.gz
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_ html/dbase/download/write_ncdf.tar.gz

There are mire routines available to work with this data structures.

e.g.
icgs_correlate
This function computes the Pearson linear correlation and linear
regression
coefficients for two parameters in an ICG structure.
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_
html/dbase/download/icgs_correlate.tar.gz

The whole library you'll find here:
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml

If you are using the catalogue look for the category: ICG_STRUCT

regards

Reimar

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Reimar Bauer

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a IDL library at ForschungsZentrum Juelich
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml

http://www.fz-juelich.de/zb/text/publikation/juel3786.html
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read something about linux / windows
http://www.suse.de/de/news/hotnews/MS.html
