Subject: Re: on reading NCDF files
Posted by R.Bauer on Tue, 20 Jan 2004 13:57:40 GMT
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Sangwoo wrote:
> Hi everyone!
>
> I'm gonna read a NCDF file. It may contain several variables within
> itself. When I extract a variable named "image", the procedure is as
> follows:
>
> cid=ncdf_open('test.nc')
> vid=ncdf_varid(cid,'image')
> ncdf_varget,cid,vid,image
>
> But suppose I don't know the name of each variable unfortunately. Is
> there any way to figure out the details of the included
> variables(name, dimension, etc.)? The second command fails when I put
> a wrong variable. And is there any way to read the included variables
> all at once? (something like /all keyword)
>
> I wonder if there's any way to figure out all details of the included
> variables from an NCDF file directly.

Dear Sangwoo

you could try our read_ncdf function.

 http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl _html/dbase/read_ncdf_dbase.pro.html

This routine reads all international defined attributes and some more.
The attributes has to be defined in a definition routine, e.g. def_icg.
A different diffinition could be given with a keyword: def_struct

you could call it this way

x=read_ncdf(file) reads everything of parameters
x=read_ncdf(file,[var1,var2]) var1 ... short_name of parameter,
    all coordination parameters are readed too

x=read_ncdf(file, /raw,/as_pointer) result is a structure all values are
pointer, no valid index vectors are creaeted no scale_factor no
add_offset is used.

x=read_ncdf(file,/status) additional info about definition of varibales
is added

There are more keywords available. And there are lots of routines for
the ICG-DATA-STRUCTURE in our library at

 http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro. html

regards
Reimar