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Subject: Re: on reading NCDF files

Posted by [Liam Gumley](#) on Tue, 20 Jan 2004 16:12:32 GMT

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"Sangwoo" <leesw@astro.snu.ac.kr> wrote in message  
news:3ee6ff80.0401192300.534dc5b1@posting.google.com...

> 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.

You may wish to try the following sample programs from my book:

NCDF\_VARDIR: returns a list of variable names in a netCDF file

NCDF\_ATTDIR: returns a list of attribute names associated with a given  
variable

The programs are available at

[http://www.gumley.com/PIP/About\\_Book.html](http://www.gumley.com/PIP/About_Book.html)

in the "Sample Programs" archive files. Reading and writing netCDF files in  
IDL is explained in detail in Chapter 4.

Cheers,

Liam.

Practical IDL Programming

<http://www.gumley.com/>

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