Subject: Re: IDL problem with ncdf vardef: can' exit definition mode Posted by David Fanning on Fri, 31 May 2013 12:44:36 GMT

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Therese writes:

> I have problems with creating a ncdf-file: I can't define all of my variables with ncdf vardef().

> Two of my variables (longitude, latitude) have the dimensions x*y=6000*4800 and the whole data-field has x*y*k=6000*4800*10. I want to save the data-field in k=10 variables with dimensions x*y in the ncdf-file.

> The definition of longitude and latitude works but if I want to define the ten data-fields I get the following error message:

> "NCDF_CONTROL: Attempt to take the file out of define mode (ENDEF) failed. (NC ERROR=-31)"

> I first tried to define them in a for-loop and I also tried to do it "by hand" one for one but it didn't help. If I remove the definitions for the data-fields the program works.

> I do not understand why there is a difference between "latid", "lonid" and the "datid"-vector. Is there a maximum number of definitions which can be defined?

It is hard to know what this is all about. Your data is about 1.2 GBytes. That is a pretty large file. I wonder what happens if you defined, say three of those variables, rather than 10. Same problem?

I ran into similar strange problems when I was working with netCDF data files years ago. I got so frustrated with it I wrote my own software to make all of this much easier and less prone to frustrating errors. You can find netCDF_File, my solution, on my web page:

http://www.idlcoyote.com/fileio_tips/ncdf_browser.html

But, it is not clear to me even this will solve your problem. It might be you have to "sync" your variables to disk each time you write one:

NCDF_Control, self.fileID, /SYNC

This will make sure the variable is actually written to disk.

Cheers.

David

David Fanning, Ph.D. Fanning Software Consulting, Inc. Coyote's Guide to IDL Programming: http://www.idlcoyote.com/ Sepore ma de ni thue. ("Perhaps thou speakest truth.")