
Subject: Re: IDL problem with ncd_f_vardef: can't 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 ncd_f-file: I can't define all of my variables with ncd_f_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 ncd_f-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

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>
Sepore ma de ni thue. ("Perhaps thou speakest truth.")
