Subject: Re: Can't exit DEFINE mode in netCDF File Posted by Kenneth P. Bowman on Wed, 07 Oct 2009 18:22:38 GMT View Forum Message <> Reply to Message

In article

- <1a1cedb2-981d-4b52-af3e-1af44caf7830@x5g2000prf.googlegroups.com>, "dcleon@gmail.com" <dcleon@gmail.com> wrote:
- >> Where is it written, though, that the _FillValue attribute has
- >> to be the same data type as the variable it is an attribute of?
- >> And why doesn't *that* cause an error, instead of this action at
- >> a distance thing?

>

- > I've run into this problem several times. I think with the ncdf_
- > routines that if the type on any attribute or variable fails to match
- > the declared type, that you're going to get an error when you close
- > the file. Seems like the ncdf routines should give you the error when
- > you define the attribute/variable not down the road when you go to
- > close the file. Anyway, the bottom line is check types very carefully
- > when writing NetCDF files.

>

- > Cheers,
- > dave

Well, you learn something new every day (if you're lucky). Or perhaps unlearn something wrong that you thought you knew.

I always interpreted the NCDF_CONTROL man page to imply that fill values could not be changed, when it fact it (correctly) states that the *default* fill values cannot be changed.

Use of the _FillValue attribute is rather well hidden on pages 91 and 133 of the netCDF C-interface documentation

http://www.unidata.ucar.edu/software/netcdf/docs/netcdf-c.pd f

I thought this usage was restricted to the netCDF utilities (such as ncgen) and not a property of the API.

Section 6.30 of the docs does say that errors can result when attempting to convert a fill value from one type to another.

IDL seems to be reporting this in a particularly opaque manner. (That's a polite euphemism for damned incomprehensible IDL error message.)

Ken Bowman