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Subject: Re: Can't exit DEFINE mode in netCDF File  
Posted by [David Fanning](#) on Tue, 06 Oct 2009 21:45:55 GMT  
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David Fanning writes:

```
>  
> Folks,  
>  
> I am writing my first netCDF file in IDL and I am practically  
> copying the code out of Ken Bowman's book. I open a file:  
>  
>   fID = NCDF_CREATE(filename, /Clobber)  
>  
> Then, I define several global attributes, two dimensions,  
> and two variables. I also define a couple of attributes  
> of the variables. All in that order.  
>  
> Then, I attempt to get out of DEFINE mode and into DATA  
> mode, so I can write the actual variables.  
>  
>   NCDF_CONTROL, fID, /ENDEF  
>  
> But at this point I get the following error message:  
>  
>   % NCDF_CONTROL: Attempt to take the file out of  
>   define mode (ENDEF) failed. (NC_ERROR=-45)  
>   % Execution halted at: TIMESERIES::CREATE_CLIMATOLOGY 2589  
>  
> Does anyone have ANY idea what this might be about?
```

The code is pretty simple:

```
; Create a netCDF file for storing the climatology.  
fID = NCDF_Create(filename, /Clobber)  
  
; Define dimensions.  
xsizeID = NCDF_DIMDEF(fID, 'cols', xsize)  
ysizeID = NCDF_DIMDEF(fID, 'rows', ysize)  
timeID = NCDF_DIMDEF(fID, 'time', 2)  
  
; Define variables.  
vid = NCDF_VARDEF(fID, 'time', [timeID], /LONG)  
vid = NCDF_VARDEF(fID, 'climatology', [xsizeID, ysizeID], /DOUBLE)  
  
; Define variable attributes.  
NCDF_ATTPUT, fID, 'time', 'units', 'Days since 1601-01-01 00:00:00'  
NCDF_ATTPUT, fID, 'time', 'long_name', 'Start and end time. '
```

```
NCDF_ATTPUT, fID, 'climatology', '_FillValue', fillValue
NCDF_ATTPUT, fID, 'climatology', 'long_name', 'longish name'

; Exit DEFINE mode and into DATA mode.
NCDF_Control, fID, /ENDEF

; Write the variables.
NCDF_VarPut, fID, 'time', [time[0], time[timepts-1]]
NCDF_VarPut, fID, 'climatology', climatology

; Close the file.
NCDF_Close, fID
```

At one time I had global attributes in there, but I took them out and the code worked! So I added them back one by one. Then, it didn't work again, so I took them all back out. Now it *\*still\** doesn't work! Something really, really weird going on here, I think. :-(

Cheers,

David

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

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