
Subject: Re: NCDF_ATTPUT _FillValue problem for string arrays?

Posted by [Paul Van Delst\[1\]](#) on Wed, 08 Jul 2009 19:12:40 GMT

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Fiç½LDY Lajos wrote:

>

> On Mon, 6 Jul 2009, Paul van Delst wrote:

>

>> AHA!!!

>>

>> When I change your above test code to use the conventional fill value

>> attribute name as specified in the netCDF Interface Guide,

>> "_FillValue", I get the following:

>>

>> ncid=ncdf_create('test.nc', /clobber)

>> dim32=ncdf_dimdef(ncid, 'dim1', 32)

>> n_absorbers_dimid=ncdf_dimdef(ncid, 'dim2', 9)

>> varid = ncdf_vardef(ncid, 'absorber_units_name',

>> [dim32,n_absorbers_dimid], /char)

>> ncdf_attput, ncid, varid, '_FillValue', ' ' ; <---**** Note the

>> attribute name

>> ncdf_control, ncid, /endef

>> ncdf_close, ncid

>>

>> IDL> .run blah

>> % Compiled module: \$MAIN\$.

>> % NCDF_CONTROL: Attempt to take the file out of define mode (ENDEF)

>> failed. % (NC_ERROR=-45)

>> % Execution halted at: \$MAIN\$ 6 scratch/blah.pro

>>

>>

>> So:

>> - if I use "_fillvalue" for the attribute name, the code works fine.

>> - if I use "_FillValue" for the attribute name, the code crashes.

>>

>

> I have found the solution: _FillValue needs to be the same type as the

> variable. ' ' is an IDL string, which is converted to something,

> probably BYTE. So let's add an explicite /CHAR to ncdf_attput:

>

> ncid=ncdf_create('test.nc', /clobber)

> dim32=ncdf_dimdef(ncid, 'dim1', 32)

> n_absorbers_dimid=ncdf_dimdef(ncid, 'dim2', 9)

> varid = ncdf_vardef(ncid, 'absorber_units_name',

> [dim32,n_absorbers_dimid], /char)

> ncdf_attput, ncid, varid, '_FillValue', ' ', /CHAR

> ncdf_control, ncid, /endef

> ncdf_close, ncid

>
> It works now! :-)

Yes, it does for me also.

You, sir, are a star!

Thanks,

paulv
