Subject: Re: writing fixed-length string arrays to netcdf-4
Posted by David Fanning on Mon, 04 Nov 2013 18:48:45 GMT
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David Fanning writes:

> Well, I don't know. My NCDF_File object seems to do it just fine.

Here is essentially the same program, but using string arrays.

```
 ;---------------------------------------------------------- ----------
; Create a ncdf file with variable length and fixed length strings.
fileObj = Obj_New('ncdf_file', 'tester.nc', /Clobber, /Create)
fileObj -> WriteDim, 'xdim', [10], OBJECT=xdimObj
fileObj -> WriteDim, 'ydim', [3], OBJECT=ydimObj
dimNames = [xdimObj->GetName(), ydimObj->GetName()]
v1 = ['cat','coyote','elephant']
v2 = String(v1, Format='(A10)')
fileObj -> WriteVarDef, 'v11', dimNames, DATATYPE='STRING', OBJECT=v1Obj
fileObj -> WriteVarDef, 'v22', dimNames, DATATYPE='STRING', OBJECT=v2Obj

fileObj -> WriteVarData, v1Obj, v1
fileObj -> WriteVarData, v2Obj, v2

fileObj -> Sync
Obj_Destroy, fileObj


; Read the data out of the file.
fObj = Obj_New('ncdf_file', 'tester.nc')
v_1 = fObj -> GetVarData('v11')
v_2 = fObj -> GetVarData('v22')
Help, v_1, v_2
Obj_Destroy, fObj
END
 ;---------------------------------------------------------- ----------
```

Here is what I get when I run it.

```
IDL> .go
V_1             STRING    = Array[3]
V_2             STRING    = Array[3]
IDL> print, v_1
cat coyote elephant
IDL> print, v_2
      cat     coyote   elephant
```

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.")
