
Subject: Re: formatting array output?

Posted by [thompson](#) on Fri, 31 Jan 2003 16:12:55 GMT

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Murat Maga <maga@mail.utexas.edu> writes:

> Kenneth Bowman wrote:

>>

>> In article <3E394CDD.8F9B0C65@mail.utexas.edu>,

>> Murat Maga <maga@mail.utexas.edu> wrote:

>>

>>> Hi All,

>>> I have an integer array (2000x1000) which I would like to write in file
>>> in the typical matrix convention. I think IDL breaks the line at 80th
>>> column and everything starts to look quite messy.

>>> To format an array output, do I use the print/printf, or are there any
>>> other tricks good to know?

>>> Best,

>>> Murat

>>

>> Use a portable binary format like netcdf or hdf. You aren't really
>> planning to read the file, are you?

>>

>> id = NCDF_OPEN('newfile')

>> d1 = NCDF_DIMDEF(id, 'dim1', 2000)

>> d2 = NCDF_DIMDEF(id, 'dim2', 1000)

>> vid = NCDF_VARDEF(id, 'matrix', [d1, d2], /LONG)

>> NCDF_CONTROL, id, /ENDEF

>> NCDF_VARPUT, id, 'matrix', matrix

>> NCDF_CLOSE, id

>>

>> Ken Bowman

> Thanks for the answers everybody. Yes I do need to use an ASCII format,

> HDF is not an option for me. I also need to parse the file manually -at

> least partially-, that is the other reason.

> printf, 2, '\$(2000F)'

> command is actually all i need. But I have one other silly question,

> what if the size of the array is parametric? I tried to put the variable

> name but that didnt work. Just for the record, I come from neither C nor

> fortran school. No programming skills, unfortunately. I measure bones

> :-)

> Best,

> Murat

The simplest way to do that in IDL is to create the format string on the fly,
e.g.

```
format = '$(' + strtrim(n,2) + 'F')  
printf, 2, format=format, ...
```

You can use the SIZE function to determine what N should be, e.g.

```
sz = size(array)  
format = '$(' + strtrim(sz[1],2) + 'F')  
printf, 2, format=format, array
```

William Thompson
