Subject: Re: saving pointers in structures to FITS files?
Posted by R.Bauer on Tue, 24 Feb 2009 12:01:34 GMT
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Christopher Thom schrieb:
> Hi all,
>
> I have some code that uses to a structure to store a bunch of information.
> In the structure, I need to hold an array whose size will be defined (and
> modified) at run-time. I figured the easiest way was just to hold a
> pointer in the structure, and populate the heap variable at runtime.
>
> However...I'd like for the structure to be persistent between idl
> sessions, and I'd like the on-disk file to be fairly portable between
> collaborators/idl versions. I've tried all manifestations of FITS routines
> for dumping this, but mwrfits seems to just convert the data to a regular
> array, and I lose the ability to modify the length of the array when i
> read it back in.
>
> Does anyone have suggestions for drop-in replacements for the FITS binary
> tables? I've had problems with save files across idl versions before. Are
> there better alternatives? Or is there a magic keyword to mwrfits/mrdfits
> that I should be specifying? Or do I just have to suck it up and use a
> save file?
>
> cheers
> chris

Hi Christoper

no one has answered because you have to look for one who has run in the
same trouble so he can understood your problem.

I have no idea what FITS is.

But I can tell that you won't have problems with save files if you just
save your own variables and not everything.

If the problem is that the pointer is replaced by it's content why don't
you recreate the pointer again?

you can do this by
http://www.fz-juelich.de/icg/icg-1/idl_icglib/idl_source/idl
_html/dbase/struct2ptr_struct_dbase.pro.html
http://www.fz-juelich.de/icg/icg-1/idl_icglib/idl_source/idl _work/rb_lib/struct2ptr_struct.pro

struct={A:1,b:FINDGEN(10)}

HELP,struct,/str
** Structure <1052378>, 2 tags, length=44, refs=1:
A INT 1
B FLOAT Array[10]
result=struct2ptr_struct(struct)
HELP,result,/str
** Structure <10551e8>, 2 tags, length=8, refs=1:
A POINTER
B POINTER

Also you could save your data in an hdf SD or netCDF file. Those files can be read by various programs/languagees so one can choose how to operate with that data. It is always good to keep the dependencies low.

cheers
Reimar
