
Subject: Re: Array structure--in a structure

Posted by [John-David T. Smith](#) on Thu, 02 Nov 2000 23:17:49 GMT

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Marianne wrote:

>
> I want to define a structure containing arrays of structures. Is this
> possible without using pointers?
>
> E.g..
>
> tmp1={AA,a:1,b:2}
> tmp2={BB,CC:AA(12)}
>
> I realize this is not correct code, but what is?

tmp2={BB,CC:replicate({AA,a:1,b:2},12)}

then you can do

tmp2.cc.a=findgen(12)

etc. But you'd better hope you don't later want 11 or 13 AA's, because
without pointers, you're stuck.

JD

--

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Subject: Re: Array structure--in a structure

Posted by [R.Bauer](#) on Fri, 03 Nov 2000 10:17:34 GMT

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Marianne wrote:

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> possible without using pointers?
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> E.g..
>
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> I realize this is not correct code, but what is?
>
> Newbie-ly,
> Marianne

Dear Marianne

In our library are lots of routines for structures and their tags.

```
; NAME:
; reform_struct
; http://www.fz-juelich.de/icg/icg1/idl\_icglib/idl\_source/idl\_html/dbase/download/reform\_struct.tar.gz
; http://www.fz-juelich.de/icg/icg1/idl\_icglib/idl\_source/idl\_html/dbase/download/reform\_struct.sav
;
; PURPOSE:
; This function is used to reform a structure as tag array or
; struct array
;
; CATEGORY:
; PROG_TOOLS/STRUCTURES
;
; CALLING SEQUENCE:
; result=reform_struct(structure,dim1,[dim2],[dim3],[dim4],$
;   [dim5],[dim6],[dim7],[dim8],[/struct_array],[/tag_array]
;
; EXAMPLE:
; data=create_struct('A',FINDGEN(15),'B',SIN(FINDGEN(15)))
; result=reform_struct(data,15,/struct_array)
; HELP,result
; RESULT      STRUCT   =-> <Anonymous> Array[15]

tmp={a:findgen(15)}
tmp=reform_struct(tmp,15,/struct_array)
tmp2={a:tmp,b:1}
help,tmp2,/str
** Structure <1353068>, 2 tags, length=64, refs=1:
  A      STRUCT   -> <Anonymous> Array[15]
  B      INT      1
```

The following routines are useful for non arrayed structures.

```
http://www.fz-juelich.de/icg/icg1/idl\_icglib/idl\_source/idl\_html/dbase/download/replace\_tagvalue.tar.gz
http://www.fz-juelich.de/icg/icg1/idl\_icglib/idl\_source/idl\_
```

[html/dbase/download/replace_tagvalue.sav](http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/replace_tagvalue.sav)

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/add_tag.tar.gz

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/add_tag.sav

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/delete_tag.tar.gz

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/delete_tag.sav

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/rename_tag.tar.gz

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/rename_tag.sav

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/shift_tag.tar.gz

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/shift_tag.sav

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/tag_position.tar.gz

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/tag_position.sav

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/text2tagname.tar.gz

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/text2tagname.sav

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/text2tagname.sav

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/get_tagname.tar.gz

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/get_tagname.sav

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_source/idl_html/dbase/download/get_tagname.sav

For further routines and copyright and licence.

http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html

regards

Reimar
