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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:

>  
> 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?  
>  
> 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.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.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/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.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/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.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/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.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/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.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/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.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.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](http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html)

regards

Reimar

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