
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.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/get\_tagname.tar.gz
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.h
tml

```

regards

Reimar
