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Subject: Re: Structure reforming  
Posted by [Jaco van Gorkom](#) on Tue, 04 Jun 2002 09:30:14 GMT  
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"Ivan Valtchanov" <[ivanv@discovery.saclay.cea.fr](mailto:ivanv@discovery.saclay.cea.fr)> wrote in message  
news:20020604105617.671832ff.ivanv@discovery.saclay.cea.fr..

> I have an IDL structure variable like this:  
> help, ccc  
> CCC           STRUCT    = -> <Anonymous> Array[1]  
> help, ccc, /struct  
>   NAME           STRING   Array[133]  
>   RA            DOUBLE   Array[133]  
>  
> and I would like to reform it like this  
> help,ccc  
> CCC           STRUCT    = -> <Anonymous> Array[133]  
> help,ccc,/struct  
>   NAME           STRING           g01  
>   RA            DOUBLE           316.022  
>  
> Is there any fast way to do it?

how about:

```
ddd = replicate({name:" ", ra:0.d}, 133)
ddd.name = ccc.name
ddd.ra = ccc.ra
```

cheers,  
Jaco

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Subject: Re: Structure reforming  
Posted by [Ivan Valtchanov](#) on Tue, 04 Jun 2002 09:44:25 GMT  
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On Tue, 4 Jun 2002 11:30:14 +0200  
"Jaco van Gorkom" <[j.c.van.gorkom@fz-juelich.de](mailto:j.c.van.gorkom@fz-juelich.de)> wrote:

> how about:  
> ddd = replicate({name:" ", ra:0.d}, 133)  
> ddd.name = ccc.name  
> ddd.ra = ccc.ra  
>  
> cheers,  
> Jaco

Thanks Jaco,

That's the way I am doing it now. But I have some 50-60 tags and they

are sometimes different from structure to structure...

B+,  
Ivan

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Subject: Re: Structure reforming  
Posted by [Jaco van Gorkom](#) on Tue, 04 Jun 2002 11:45:04 GMT  
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"Ivan Valtchanov" <[ivanv@discovery.saclay.cea.fr](mailto:ivanv@discovery.saclay.cea.fr)> wrote in message  
news:20020604114425.31eda9c4.ivanv@discovery.saclay.cea.fr...  
> On Tue, 4 Jun 2002 11:30:14 +0200  
> "Jaco van Gorkom" <[j.c.van.gorkom@fz-juelich.de](mailto:j.c.van.gorkom@fz-juelich.de)> wrote:  
>> how about:  
>> ddd = replicate({name:", ra:0.d}, 133)  
>> ddd.name = ccc.name  
>> ddd.ra = ccc.ra  
>  
> That's the way I am doing it now. But I have some 50-60 tags and they  
> are sometimes different from structure to structure...

In that case you might want to create a single-element structure d at  
the time you create the ccc array structure. Then you could do  
something like  
ddd = replicate(d, 133)  
for i=0L, n\_tags(ccc)-1 do ddd.(i) = ccc.(i)

Alternatively, create the single-element structure d from ccc in a  
FOR-loop using TAG\_NAMES() and repeated structure concatenation by  
CREATE\_STRUCT(). Or create the d structure in an EXECUTE() call.

Jaco

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Subject: Re: Structure reforming  
Posted by [R.Bauer](#) on Tue, 04 Jun 2002 14:51:47 GMT  
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Ivan Valtchanov wrote:  
>  
> Hi all,  
>  
> I have an IDL structure variable like this:  
>  
> help, ccc  
> CCC           STRUCT    = -> <Anonymous> Array[1]

```

>
> help, ccc, /struct
>  NAME          STRING   Array[133]
>  RA            DOUBLE   Array[133]
>
> and I would like to reform it like this
> help, ccc
> CCC          STRUCT   = -> <Anonymous> Array[133]
> help, ccc, /struct
>  NAME          STRING       g01
>  RA            DOUBLE       316.022
>
> Is there any fast way to do it?
>
> Thanks a lot.
>
> Ivan

```

You can use my reform\_struct.

[http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_source/idl\\_html/dbase/download/reform\\_struct.tar.gz](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/reform_struct.tar.gz)

regards

Reimar

```

; NAME:
; reform_struct
;
; 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],[di
m5],[dim6],[dim7],[dim8],[/struct_array],[/tag_array]
;
; INPUTS:
; structure: a structures
; dim1: the new dimension of the input structure (1D to 8D)
;

```

```
; OPTIONAL INPUTS:
; dim2 to dim8: additional dimensions if not declared in dim1
;
; KEYWORD PARAMETERS:
; struct_array: if is set output structure is an array
; tag_array: if is set output structure is 1D and tags are arrays
; You have to set one of these keywords
;
; 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]
```

--  
Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-I)  
Forschungszentrum Juelich  
email: R.Bauer@fz-juelich.de

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a IDL library at ForschungsZentrum Juelich  
[http://www.fz-juelich.de/icg/icg1/idl\\_icglib/idl\\_lib\\_intro.h\\_tml](http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h_tml)  
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Subject: Re: Structure reforming  
Posted by [Ivan Valtchanov](#) on Tue, 04 Jun 2002 15:57:18 GMT  
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On Tue, 04 Jun 2002 16:51:47 +0200  
Reimar Bauer <r.bauer@fz-juelich.de> wrote:  
>  
> You can use my reform\_struct.  
>  
> [http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_source/idl\\_html/dbase/download/reform\\_struct.tar.gz](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/reform_struct.tar.gz)  
>  
>  
> regards  
>  
> Reimar

Thanks a lot... I knew that someone has done it before, logical...

Best regards,  
Ivan

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Subject: Re: Structure reforming  
Posted by [Jaco van Gorkom](#) on Tue, 04 Jun 2002 16:29:53 GMT  
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"Reimar Bauer" <r.bauer@fz-juelich.de> wrote in message  
news:3CFCD403.25A83AD4@fz-juelich.de...

> Ivan Valtchanov wrote:

>>

>> Is there any fast way to do it?

>

> You can use my reform\_struct.

>

> [http://www.fz-juelich.de/icg/icg-i/idl\\_icglib/idl\\_source/idl\\_html/dbase/download/reform\\_struct.tar.gz](http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/reform_struct.tar.gz)

Nice, very nice! And right in my backyard, too :-)

Jaco

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