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Subject: Structure Arrays

Posted by [Haje Korth](#) on Thu, 28 Sep 2006 15:44:51 GMT

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Hi,

It's one of those days. You think you know IDL but you really don't.

Well, may be someone can help.

I have an array of structures created like

```
s1={a:0,b:0,c:0}
```

```
s2=replicate(s1,10)
```

Is there a way to expand this array by another tag "d" so that essentially every array index contains the structure {a,b,c,d}?

The reason why I don't include "d" right away is that I read the structure content from files, where the additional variable is not available.

I have looked at `struct_assign` and `create_struct`, but I don't think they can do what I want.

Does anyone have any idea except copying every freakin' tag separately???

Thanks,

Haje

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Subject: Re: Structure Arrays

Posted by [greg michael](#) on Fri, 29 Sep 2006 11:45:16 GMT

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I think `struct_assign` does it...

```
IDL> t1={a:0,b:0,c:0,d:4}
```

```
IDL> t2=replicate(t1,10)
```

```
IDL> print,t2
```

```
{ 0 0 0 4}{ 0 0 0 4}{
 0 0 0 4}{ 0 0 0 4}{
0 0 0 4}{ 0 0 0 4}{ 0
 0 0
 4}{ 0 0 0 4}{ 0 0 0
 4}{ 0 0 0 4}
```

```
IDL> s1={a:1,b:2,c:3}
```

```
IDL> s2=replicate(s1,10)
```

```
IDL> print,s2
```

```
{ 1 2 3}{ 1 2 3}{ 1 2
```

```

      3}{      1      2      3}{      1      2      3}{      1
2      3}{      1      2      3}{      1      2      3}{
1      2      3
}{      1      2      3}
IDL> struct_assign,s2,t2,/nozero
IDL> print,t2
{      1      2      3      4}{      1      2      3      4}{
  1      2      3      4}{      1      2      3      4}{
1      2      3      4}{      1      2      3      4}{      1
  2      3
  4}{      1      2      3      4}{      1      2      3
4}{      1      2      3      4}

```

regards,  
Greg

Subject: Re: Structure Arrays

Posted by [Haje Korth](#) on Fri, 29 Sep 2006 12:28:27 GMT

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Thanks, Greg, it does indeed work. As noted in my double post (sorry) I tried to simply append the structure, which did not succeed. I am not memory constrained, so your solution will work. Haje

greg michael wrote:

```

> I think struct_assign does it...
>
> IDL> t1={a:0,b:0,c:0,d:4}
> IDL> t2=replicate(t1,10)
> IDL> print,t2
> {      0      0      0      4}{      0      0      0      4}{
>  0      0      0      4}{      0      0      0      4}{
> 0      0      0      4}{      0      0      0      4}{      0
>  0      0
>  4}{      0      0      0      4}{      0      0      0
>  4}{      0      0      0      4}
> IDL> s1={a:1,b:2,c:3}
> IDL> s2=replicate(s1,10)
> IDL> print,s2
> {      1      2      3}{      1      2      3}{      1      2
>  3}{      1      2      3}{      1      2      3}{      1
> 2      3}{      1      2      3}{      1      2      3}{
> 1      2      3
> }{      1      2      3}
> IDL> struct_assign,s2,t2,/nozero
> IDL> print,t2

```

```
> { 1 2 3 4}{ 1 2 3 4}{
> 1 2 3 4}{ 1 2 3 4}{
> 1 2 3 4}{ 1 2 3 4}{ 1
> 2 3
> 4}{ 1 2 3 4}{ 1 2 3
> 4}{ 1 2 3 4}
>
> regards,
> Greg
```

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