
Subject: Array has a corrupted descriptor
Posted by [R.Bauer](#) on Mon, 21 May 2001 13:00:29 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi,

I got an error sometimes in one of my routines only on AIX.

```
-- IDL> help,!version,/str
** Structure !VERSION, 7 tags, length=44:
  ARCH      STRING  'ibmr2'
  OS        STRING  'AIX'
  OS_FAMILY  STRING  'unix'
  RELEASE    STRING  '5.4.1'
  BUILD_DATE  STRING  'Jan 16 2001'
  MEMORY_BITS  INT      32
  FILE_OFFSET_BITS
              INT      =    32
```

The same routine works on linux and windows.

The error text is:

% Array has a corrupted descriptor: VAR

the calling sequence is something like this

var=function(x)

First I like to know what's this error is meaning.

It seems to me that's the RETURN statement won't work.

The result value of my function is good.

If it reaches the calling level of the function I got this error.

Any ideas are welcome.

regards
Reimar

Reimar Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)

Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
<http://www.fz-juelich.de/icg/icg1/>

=====

a IDL library at Forschungszentrum Juelich
http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html

<http://www.fz-juelich.de/zb/text/publikation/juel3786.html>

===== Array
has a corrupted descriptor

read something about linux / windows
<http://www.suse.de/de/news/hotnews/MS.html>

Subject: Re: Array has a corrupted descriptor
Posted by [Foldy Lajos](#) on Tue, 12 Feb 2008 18:00:39 GMT
[View Forum Message](#) <> [Reply to Message](#)

On Tue, 12 Feb 2008, zhouqiang.search@gmail.com wrote:

```
> HI , folks
>
> I try to complete a program with IDL invoking some function from
> C ,it works well when I passing a float , double
> array , and return a same type with input . Now there is a problem
> that it didn't work while passing a complex array.
> And the error "array has a corrupted descriptor" every time. I am a
> newer with IDL , and I don't know too much
> about that , if anyone can help me, please accept my wonderful
> appreciate.
>
> -----c program-----
> DLLIMPORT void array_test(int argc, void *argv[])
> {
>     int nr = *(int *) argv[0];
>     int ni = *(int *) argv[1];
>
>     // int *result = argv[2];
>     IDL_DCOMPLEX *result = argv[2];
>     int i , j;
>     for(i = 0; i < ni ; i++)
>     {
>         for(j=0; j < nr; j++)
>         {
>
>             result[i*ni+j].r = 5 ;
>             result[i*ni+j].i = 10 ;
```

Try ^^^^^^
 i*nr+j

regards,
lajos

```
>     }  
> }  
>  
> }  
>  
> -----IDL program-----  
>  
>  
> function test1 , row , line  
> ; result= lonarr(row,line)  
> result = complexarr(row , line)  
> s = call_external('C:\_test\test3\Project3.dll', 'array_test',row ,  
> line , result)  
> return, result  
> end  
>  
> pro test  
> ;p=lonarr(5,5)  
> p = complexarr(5,5)  
> p = test1(5,5)  
> print , p  
> end  
>
```

Subject: Re: Array has a corrupted descriptor
Posted by [zhouqiang.search](#) on Tue, 12 Feb 2008 21:38:38 GMT
[View Forum Message](#) <> [Reply to Message](#)

Hi , Lajos

Thanks for your help, I think it is not the problem with i*nr+j ,
because I test the program with same value ni and nr.

Subject: Re: Array has a corrupted descriptor
Posted by [Peter Mason](#) on Tue, 12 Feb 2008 23:38:07 GMT
[View Forum Message](#) <> [Reply to Message](#)

zhouqiang.search@gmail.com wrote:

```
<...>  
> IDL_DCOMPLEX *result = argv[2];  
<...>  
> result = complexarr(row , line)  
<...>
```

Aside from the index-calc issue pointed out in the other post...

You make a single-precision complex array (2 * 4 bytes per element) on the IDL side but you handle it as a double-precision one (2 * 8 bytes per element) on the C side. Your C code is going past the end of this array, tramping over things it shouldn't.

In your C code, use IDL_COMPLEX instead of IDL_DCOMPLEX.

Cheers
Peter Mason

Subject: Re: Array has a corrupted descriptor
Posted by [zhouqiang.search](#) on Wed, 13 Feb 2008 11:02:06 GMT
[View Forum Message](#) <> [Reply to Message](#)

On 12 Feb, 18:38, "Peter Mason" <peter.ma...@deleteme.csiro.au> wrote:

```
> zhouqiang.sea...@gmail.com wrote:  
>  
> <...>> IDL_DCOMPLEX *result = argv[2];  
> <...>  
>> result = complexarr(row , line)  
>  
> <...>  
>  
> Aside from the index-calc issue pointed out in the other post...  
> You make a single-precision complex array (2 * 4 bytes per element) on the  
> IDL side but you handle it as a double-precision one (2 * 8 bytes per  
> element) on the C side. Your C code is going past the end of this array,  
> tramping over things it shouldn't.  
> In your C code, use IDL_COMPLEX instead of IDL_DCOMPLEX.  
>  
> Cheers  
> Peter Mason
```

Hi , peter

I have fixed the problem this morning , just as you said , I took a mistake about the data type.

Thanks for your reply. Because I am really new to use IDL , and I am not very familiar about that ,
I think I need to work hard.
