
Subject: Re: Keyword DLM crashes with IDL 5.2?
Posted by [Craig Markwardt](#) on Mon, 30 Apr 2001 16:53:40 GMT
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Randall Skelton <rhskelto@atm.ox.ac.uk> writes:

> Hi all,
>
> I am trying to port a DLM that works in IDL 5.4/5.3 to work with IDL 5.2.
> As a demonstration of my problem I have modified the file testmodule.c to
> include a simple procedure called 'testr' that takes a keyword and
> distributed it below. It compiles under unix with:
>
> gcc -Wall -Wimplicit -fpic -shared -I/usr/local/PACK/idl-5.3/external
> testmodule.c -o testmodule.so
>
> Execution in IDL is:
>
> IDL> testr, 1, a, ERROR=b
> % Loaded DLM: TESTMODULE.
> IDL> print, a, b
> 10 0
>
> This routine compiles and works just fine under IDL 5.3, but it seg-faults
> during execution with IDL 5.2. Without the keywords, the procedure works
...

Are you trying to run the same compiled DLM in both IDL 5.2 and 5.3?
Others can correct me if I'm wrong, but I believe that binary DLMs are
not guaranteed to be compatible between IDL versions. The problem is
that structure definitions and other binary interfaces change between
versions.

If you recompiled it for IDL 5.2 then that's a different story!

Craig

--

Craig B. Markwardt, Ph.D. EMAIL: craigmnet@cow.physics.wisc.edu
Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response

Subject: Re: Keyword DLM crashes with IDL 5.2?
Posted by [Randall Skelton](#) on Mon, 30 Apr 2001 16:57:48 GMT
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I think I have figured out the answer to my own question...

```
replace: IDL_KWGetParams(argc,inargv,argk,kw_err,NULL,1)
with:   IDL_KWGetParams(argc,inargv,argk,kw_err,argv,1)
               ^^^^
```

or any other valid IDL_VPTR pointer array.

From the EDG...

Plain_args is defined as an array of IDL_VPTR into which the IDL_VPTRs of the positional arguments will be copied. This array must have enough elements to hold the maximum possible number of positional arguments as defined in IDL_SYSFUN_DEF2...

Reading the above suggests I need a finite array dimension as I am expecting to pass 2 plain arguments. The root of my problem was in the EDG Example code they pass a NULL and I assumed I should do the same. It is somewhat surprising that it worked in IDL 5.3 and I didn't notice any bizarre behavior...

Cheers,
Randall

On Mon, 30 Apr 2001, Randall Skelton wrote:

```
> Date: Mon, 30 Apr 2001 17:29:21 +0100
> From: Randall Skelton <rshkelto@atm.ox.ac.uk>
> Newsgroups: comp.lang.idl-pvwave
> Subject: Keyword DLM crashes with IDL 5.2?
>
> Hi all,
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>      10      0
>
> This routine compiles and works just fine under IDL 5.3, but it seg-faults
```

> during execution with IDL 5.2. Without the keywords, the procedure works
> fine, and I can trace the fault to calling 'IDL_KWGetParams' in IDL 5.2.
> I've read the relevant sections of the EDG at least twice over and after
> an afternoon of fiddling, I cannot find the bug. Any and all help is
> greatly appreciated!
>
> Randall
>
