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Subject: Re: \_EXTRA inheritance crashing IDL  
Posted by [Mark Hadfield](#) on Wed, 10 Apr 2002 22:41:34 GMT  
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"Rob Preece" <Rob.Preece@msfc.nasa.gov> wrote in message  
news:Rob.Preece-1004021625170001@biggamma.nsstc.nasa.gov...  
> OK, Rob de-lurking here.  
>  
> Has anyone seen a behavior where IDL 5.5 crashes on a call to a  
> subroutine with an added \_EXTRA keyword? I have found the same  
> behavior on several different machines, Linux and Mac, which does  
> not exist under 5.4. Here goes a test case:  
>  
> PRO test1, \_REF\_EXTRA = extra  
>  
> testStuff = ['TITLE','XTITLE','YTITLE']  
>  
> test2, INDGEN (10), \_EXTRA = [testStuff, 'XRANGE']  
>  
> END  
>  
> PRO test2, plotStuff, \_EXTRA = extra  
>  
> PLOT, plotStuff, plotStuff, \_EXTRA = extra  
>  
> END

It crashes for me too (IDL 5.5, Windows 2000). IDL quits  
immediately--I don't get a chance to see any error messages.

I have never had a crash before related to keyword inheritance in IDL  
5.5, though I use keyword inheritance extensively. But then I never  
use the idiom you do in test1, ie. passing a string array to  
\_EXTRA. (One of the reasons I do not do this is that it does not  
support keyword abbreviations.) Can you do without it? Ie:

```
PRO test1, _REF_EXTRA = extra
  test2, INDGEN (10), _EXTRA=extra
END
```

or in IDL 5.5 only:

```
PRO test1, _REF_EXTRA = extra
  test2, INDGEN (10), _STRICT_EXTRA=extra
END
```

--

Mark Hadfield  
m.hadfield@niwa.co.nz

Ka puwaha et tai nei

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Subject: Re: \_EXTRA inheritance crashing IDL  
Posted by [David Fanning](#) on Thu, 11 Apr 2002 02:05:42 GMT  
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Rob Preece (Rob.Preece@msfc.nasa.gov) writes:

> OK, Rob de-lurking here.

Oh, good. :-)

> Has anyone seen a behavior where IDL 5.5 crashes on a call to a subroutine  
> with an added \_EXTRA keyword? I have found the same behavior on several  
> different machines, Linux and Mac, which does not exist under 5.4. Here  
> goes a test case:

```
>  
> PRO test1, _REF_EXTRA = extra  
>  
>   testStuff = ['TITLE','XTITLE','YTITLE']  
>  
>   test2, INDGEN (10), _EXTRA = [testStuff, 'XRANGE']  
>  
> END  
>  
> PRO test2, plotStuff, _EXTRA = extra  
>  
>   PLOT, plotStuff, plotStuff, _EXTRA = extra  
>  
> END
```

> Compile and execute :

```
>  
> IDL> test1, XRANGE = [-1, 10]  
>  
> On 5.4, I get a nice plot, with my new XRANGE. On 5.5, I get a *totally  
> irrelevant* error message:
```

Well, yes, it crashes IDL 5.5, but not IDL 5.4. But I don't think you can hold RSI responsible for using their keyword inheritance mechanism in such a bogus way. Formatting the keywords you want to pass as a structure (the way this was meant to work) is error free:

```
PRO test1, _REF_EXTRA = extra
```

```
testStuff = {TITLE:'bob',XTITLE:'jim',YTITLE:'mary'}
test2, INDGEN (10), _Extra=Create_Struct(testStuff, 'XRange',[0,5])
END
```

```
PRO test2, plotStuff, _EXTRA = extra
  PLOT, plotStuff, plotStuff, _EXTRA = extra
END
```

Cheers,

David

--

David W. Fanning, Ph.D.  
Fanning Software Consulting  
Phone: 970-221-0438, E-mail: david@dfanning.com  
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Toll-Free IDL Book Orders: 1-888-461-0155

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Subject: Re: \_EXTRA inheritance crashing IDL  
Posted by [Mark Hadfield](#) on Thu, 11 Apr 2002 03:44:54 GMT  
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"David Fanning" <david@dfanning.com> wrote in message  
news:MPG.171e9d5d95b9c99c98987f@news.frii.com...  
> Rob Preece (Rob.Preece@msfc.nasa.gov) writes:  
>> Has anyone seen a behavior where IDL 5.5 crashes on a call to a  
>> subroutine with an added \_EXTRA keyword? I have found the same  
>> behavior on several different machines, Linux and Mac, which does  
>> not exist under 5.4.  
>  
> Well, yes, it crashes IDL 5.5, but not IDL 5.4. But I don't think  
> you can hold RSI responsible for using their keyword inheritance  
> mechanism in such a bogus way. Formatting the keywords you want to  
> pass as a structure (the way this was meant to work) is error free:  
>  
> PRO test1, \_REF\_EXTRA = extra  
> testStuff = {TITLE:'bob',XTITLE:'jim',YTITLE:'mary'}  
> test2, INDGEN (10), \_Extra=Create\_Struct(testStuff, 'XRange',[0,5])  
> END

But Rob was trying to supply keywords to test1 and have them passed to  
test2. And the way he did it is valid according to the IDL docs. See  
heading "Keyword Inheritance", subheading "Selective Keyword  
Redirection", where they give the example

```
PRO SOMEPROC, _REF_EXTRA = ex
ONE, _EXTRA=['MOOSE', 'SQUIRREL']
```

```
TWO, _EXTRA='SQUIRREL'  
END
```

(Yes, it is odd that the variable name ex is not used.)

--

Mark Hadfield  
m.hadfield@niwa.co.nz                      Ka puwaha et tai nei  
http://katipo.niwa.co.nz/~hadfield      Hoesa tatou  
National Institute for Water and Atmospheric Research (NIWA)

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Subject: Re: \_EXTRA inheritance crashing IDL  
Posted by [David Fanning](#) on Thu, 11 Apr 2002 04:42:24 GMT  
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Mark Hadfield (m.hadfield@niwa.co.nz) writes:

```
> But Rob was trying to supply keywords to test1 and have them passed to  
> test2. And the way he did it is valid according to the IDL docs. See  
> heading "Keyword Inheritance", subheading "Selective Keyword  
> Redirection", where they give the example  
>  
> PRO SOMEPROC, _REF_EXTRA = ex  
> ONE, _EXTRA=['MOOSE', 'SQUIRREL']  
> TWO, _EXTRA='SQUIRREL'  
> END  
>  
> (Yes, it is odd that the variable name ex is not used.)
```

Well, there you go. I need to spend less time playing  
tennis and more time reading the manual. :-)

Cheers,

David

P.S. Let's just say a well-exercised body leads to  
a limber mind. :-)

--

David W. Fanning, Ph.D.  
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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>  
Toll-Free IDL Book Orders: 1-888-461-0155

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Subject: Re: \_EXTRA inheritance crashing IDL  
Posted by [Rob.Preece](#) on Thu, 11 Apr 2002 20:21:04 GMT  
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In article <MPG.171e9d5d95b9c99c98987f@news.frii.com>, david@dfanning.com wrote:

```
> Rob Preece (Rob.Preece@msfc.nasa.gov) writes:
>
>> OK, Rob de-lurking here.
>
> Oh, good. :-)
>
<snip>
>
> Well, yes, it crashes IDL 5.5, but not IDL 5.4. But I
> don't think you can hold RSI responsible for using their
> keyword inheritance mechanism in such a bogus way.
> Formatting the keywords you want to pass as a structure
> (the way this was meant to work) is error free:
>
> PRO test1, _REF_EXTRA = extra
>   testStuff = {TITLE:'bob',XTITLE:'jim',YTITLE:'mary'}
>   test2, INDGEN (10), _Extra=Create_Struct(testStuff, 'XRange',[0,5])
> END
>
> PRO test2, plotStuff, _EXTRA = extra
>   PLOT, plotStuff, plotStuff, _EXTRA = extra
> END
>
> Cheers,
>
> David
```

Thanks David,

But:

I have a *\*very\** good reason for doing it this way (otherwise, why bother!  
;) I have a set of keywords to pass on to an embedded plot routine, and I  
can't know at the time what their values will be. I have a plot zooming  
function in a widget (object) that simply calls the object's 'PLOT'  
method, passing new x and y ranges. The plot method does some stuff, and  
then hands it all off to the IDL (direct) PLOT routine, adding in the  
'XRANGE' and 'YRANGE' keywords so that they can be overridden when the  
'ZOOM' method is invoked. Very much like 'test1' in my sample code. Since  
I followed the documentation as Mark H. mentioned, is this a valid bug in  
IDL? How to proceed?

Maybe I'll just go for a beer (unfortunately, no good Colorado brews make it into Alabama!)

- Rob

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