
Subject: Re: manipulate output keywords
Posted by [penteado](#) on Tue, 13 Mar 2012 14:47:10 GMT
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The extra variable is made differently when you use `_ref_extra` or just `_extra`. If you use `_extra`, it is a structure with one field for each keyword. But if `_ref_extra` is used, it is an array of keyword names. The values would have to be accessed with `scope_varfetch` using its `/ref_extra` keyword.

This is described in the "Keyword Inheritance" section of the help, though it does have something wrong:

"variable e, within TEST, contains an anonymous structure with the value:

['LINESTYLE', 'THICK']"

Where the variable is a string array, not a structure.

On Tuesday, March 13, 2012 11:05:19 AM UTC-3, nata wrote:

```
> Hello guys,  
>  
> I am developing a library and I am completely lost in something that I don't know if it's possible  
to do.  
> My problem is related to the output keywords that some routines can have. What I am trying to  
do is to collect those keywords using the extra or ref_extra keyword and return the correct output  
value to the caller.  
>  
> I don't know if this is clear but see the example below:  
>  
> IDL> TEST, OUT1=out1, OUT2=out2  
>  
> PRO TEST, _REF_EXTRA=extra  
>  
> ;; My routine should be able to return the values for out1 and out2  
> ;; without knowing the keyword names, is that possible ?  
>  
> END  
>  
> I tried with something like extra={OUT1: 1, OUT2: 2} but the caller does not receive the  
information properly.  
>  
> Please, any help will be appreciated,  
> nata
```

Subject: Re: manipulate output keywords
Posted by [natha](#) on Tue, 13 Mar 2012 15:18:05 GMT
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I already knew all of that.. Maybe I didn't explain my problem properly.

My keywords are output keywords, so _EXTRA is not a structure with one field for each keyword, is undefined in the procedure TEST.

I can't use SCOPE_VARFECTH with an undefined keyword name.

I don't know, maybe there is no way to solve this problem.. Any other ideas ?
nata

Subject: Re: manipulate output keywords

Posted by [Michael Galloy](#) on Tue, 13 Mar 2012 18:01:00 GMT

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On 3/13/12 9:18 AM, nata wrote:

> I already knew all of that.. Maybe I didn't explain my problem properly.

>

> My keywords are output keywords, so _EXTRA is not a structure with one field for each keyword, is undefined in the procedure TEST.

> I can't use SCOPE_VARFECTH with an undefined keyword name.

No, but _REF_EXTRA gives you the names.

> I don't know, maybe there is no way to solve this problem.. Any other ideas ?

> nata

Is this what you want to do?

```
IDL> test, out1=out1, out2=out2
```

```
Keyword name: OUT1
```

```
Input value:
```

```
<No name>      UNDEFINED = <Undefined>
```

```
Keyword name: OUT2
```

```
Input value:
```

```
<No name>      UNDEFINED = <Undefined>
```

```
IDL> help, out1, out2
```

```
OUT1      LONG      =      0
```

```
OUT2      LONG      =      1
```

Here's my routine:

```
pro test, _ref_extra=e
```

```
  compile_opt strictarr
```

```
  for i = 0L, n_elements(e) - 1L do begin
```

```
    print, e[i], format=('%"Keyword name: %s"')
```

```
    print, 'Input value:'
```

```
    help, scope_varfetch(e[i], /ref_extra)
```

```
(scope_varfetch(e[i], /ref_extra)) = i  
endfor  
end
```

Mike

--

Michael Galloy

www.michaelgalloy.com

Modern IDL, A Guide to Learning IDL: <http://modernidl.idldev.com>

Research Mathematician

Tech-X Corporation

Subject: Re: manipulate output keywords

Posted by [natha](#) on Tue, 13 Mar 2012 18:47:41 GMT

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This is exactly what I was looking for ! ^^

Thank you Mike !

natha
