Subject: Re: Q: Calling .PRO from a program

Posted by davidf on Tue, 19 May 1998 07:00:00 GMT

Martin Fuhrer (martin.fuhrer@computer.org) writes:

```
>   I'm running IDL V5.0.2 WIN32 under WIN95 and I am writing a
> widget-based program. At some point my program calls another IDL program
> with keywords and parameters stored in local variables. I expected the
> program to behave like:
> IDL> myDirectory = 'C:\RSI\myData'
> IDL>ImageOut, myDirectory
> but it won't!
>
> For details see below:
> ..
> If (cpy eq 0) Then  Begin
>    kwd1  =  'HCOPY=0'
>    ..
> EndIf Else Begin
>    kwd1  =  'HCOPY=1'
>    ..
> EndElse
> ;call other idl program (EM.PRO) with keyword now
> EM, kwd1
```

Programs should be called in widget programs exactly
the way they are called on the IDL command line. For
example, on the IDL command line you call your EM
program like this:

```
   IDL> EM, HCOPY=1
```

You should do the same in your widget code:

```
   If (cpy eq 0) Then  EM, HCOPY=0 Else EM, HCOPY=1
```

It is possible to create keywords as strings, but then
you need to "execute" the command string, like this:

```
   command = 'EM'
   keyword = 'HCOPY=1'
   ok = EXECUTE(command + ',' + keyword)
```

You can find more information about things like this
on my web page or (especially) in my IDL Programming
Techniques book.

Cheers,

David

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Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: Q: Calling .PRO from a program
Posted by R. Bauer on Tue, 19 May 1998 07:00:00 GMT
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Martin Fuhrer wrote:

> Hi idl experts
>   I'm running IDL V5.0.2 WIN32 under WIN95 and I am writing a
> widget-based program. At some point my program calls another IDL program
> with keywords and parameters stored in local variables. I expected the
> program to behave like:
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>   kwd1 = 'HCOPY=1'
>   ..
> EndElse
> ;call other idl program (EM.PRO) with keyword now
> EM, kwd1
> ..
>
> The program crashes then with the following message:
> IDL>EM_GUI
> %EM: Incorrect number of arguments.
> %Execution halted at: ...
>
> One of the grizzly facts is that I don't know where the error message is
> coming from because in EM.PRO there is no such message implemented!
>

> Help about the keyword reveals the follwing information:
> IDL> help, kwd1
> KWD1   STRING = 'HCOPY=0'
>
> An hints or suggestions are very much appreciated by
> martin.fuhrer@computer.org

There is too much unknown.

How did you declare em.

pro em,in_var
end

or

pro em
end

or

;pro em,in_var
end

Only first definition will accept a submitted value.

--
R.Bauer

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Subject: Re: Q: Calling .PRO from a program
Posted by Martin Fuhrer on Wed, 20 May 1998 07:00:00 GMT
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Thanks David, you gave me the solution!

Cheers,
Martin

PS. Your excellent book is on my desk ...

Subject: Re: Q: Calling .PRO from a program
Posted by Martin Schultz on Wed, 20 May 1998 07:00:00 GMT

Martin Fuhrer wrote:
>
> Hi idl experts
[...]
> If (cpy eq 0) Then Begin
>   kwd1 = 'HCOPY=0'
>   ..
> EndIf Else Begin
>   kwd1 = 'HCOPY=1'
>   ..
> EndElse
> ;call other idl program (EM.PRO) with keyword now
> EM, kwd1
> ..
>
> The program crashes then with the following message:
> IDL>EM_GUI
> %EM: Incorrect number of arguments.
> %Execution halted at: ...
>

Since you named your "keyword" kwd1, I have the suspicion that you
actually want to pass a keyword to EM, not a parameter. As Reimar
noted, it will probably be a matter of the definition of EM. My guess is

pro em,kwd1=kwd1

Then you will have to pass kwd1 as

em,kwd1=kwd1   *not* em,kwd1

I would recommend the online documentation: section on parameter passing
and keywords.

Martin.

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