Subject: Re: passing strings as arguments?
Posted by mchinand on Mon, 04 Jun 2001 21:13:12 GMT
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In article <yx6h3d9gufti.fsf@socrates.Berkeley.EDU>,
 <noymer@socrates.Berkeley.EDU> wrote:
> I am using Ronn Kling's PLOTSYM, the usage of which is:
>
> plot,x,y,psym=plotsym(/circle,scale=2,/fill)
>
> instead of /circle, one could use /box, /triangle, etc...
>
> I have something like:
>
> IF (condition) THEN myshape=string('/circle') ELSE
> myshape=string('/triangle')
> ENDIF
>
> and I want to pass the string "myshape" to plotsym as the
> first argument but I can't figure out how to do this in IDL 5.3.
>
> It seems not to like strings being passed there.
>
> TIA,
>   Andrew

You could use the EXECUTE function. Something like

 result=EXECUTE('plot,x,y,psym=plotsym('+myshape+',scale=2,/f ill)')

Hope that helps,

--Mike
--
--
Michael Chinander   University of Chicago
m-chinander@uchicago.edu   (773)834-5101 (Voice)   (773)702-0371 (Fax)

Subject: Re: passing strings as arguments?
Posted by ronn on Mon, 04 Jun 2001 21:17:23 GMT
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in article yx6h3d9gufti.fsf@socrates.Berkeley.EDU,
noymer@socrates.Berkeley.EDU at noymer@socrates.Berkeley.EDU wrote on 6/4/01
4:54 PM:

> I am using Ronn Kling's PLOTSYM, the usage of which is:
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> and I want to pass the string "myshape" to plotsym as the
> first argument but I can't figure out how to do this in IDL 5.3.
>
> It seems not to like strings being passed there.
Hi Andrew,

Plotsym is looking for keywords so passing a string isn't going to work. But
you can use the _extra keyword instead. What you want to do is create an
anonymous structure that contains the keywords. Here's how

```
 IF (condition) THEN myshape={circle:1} ELSE
 myshape={triangle:1}
 ENDIF

 plot,x,y,psym=plotsym(_extra=myshape,scale=2,/fill)
```

You can also put the scale and fill keywords in myshape also. Just remember
that something like /fill has to be fill : 1 in the structure.

Ronn Kling

--
Ronn Kling
KRS, inc.
email: ronn@rlkling.com
"Application Development with IDL"ï¿½ programming book updated for IDL5.4!
"Calling C from IDL, Using DLM's to extend your IDL code" NEW BOOK!
Shareware and Freeware at: http://www.rlkling.com/

Subject: Re: passing strings as arguments?
Posted by R.Bauer on Tue, 05 Jun 2001 06:39:24 GMT
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ronn kling wrote:
>
> in article yx6h3d9gufti.fsf@socrates.Berkeley.EDU,
> noymer@socrates.Berkeley.EDU at noymer@socrates.Berkeley.EDU wrote on 6/4/01
> 4:54 PM:
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> Hi Andrew,
>
> Plotsym is looking for keywords so passing a string isn't going to work. But
> you can use the _extra keyword instead. What you want to do is create an
> anonymous structure that contains the keywords. Here's how
>
> IF (condition) THEN myshape={circle:1} ELSE
> myshape={triangle:1}
> ENDIF
>
> plot,x,y,psym=plotsym(_extra=myshape,scale=2,/fill)
>
> You can also put the scale and fill keywords in myshape also. Just remember
> that something like /fill has to be fill : 1 in the structure.
>
> Ronn Kling

Dear Ronn,

If he is using create_struct to create the anonymous structure
he is able to use his string argument.

IF (condition) THEN myshape=create_struct(string_argument,1) ELSE $
  myshape={triangle:1}

plot,x,y,psym=plotsym(_extra=myshape,scale=2,/fill)

cheers
Reimar

--
Reimar Bauer

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===
a IDL library at ForschungsZentrum Jï¿½lich
 http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.h tml

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

Subject: Re: passing strings as arguments?
Posted by R.Bauer on Tue, 05 Jun 2001 06:41:52 GMT
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Mike Chinander wrote:
>
> In article <yx6h3d9gufti.fsf@socrates.Berkeley.EDU>,
>   <noymer@socrates.Berkeley.EDU> wrote:
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>> TIA,
>>   Andrew

>
> You could use the EXECUTE function. Something like
>
> result=EXECUTE('plot,x,y,psym=plotsym('+myshape+',scale=2,/f ill)')
>
> Hope that helps,

Remember if you are using the EXECUTE you are not able
to run the code by runtime.

regards

Reimar

--
Reimar Bauer

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