Subject: sec : U Re: Ascertaining Keyword Parameters
Posted by Andrew Cool on Thu, 11 Apr 2002 05:37:58 GMT
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Ted Cary wrote:
>
> Hello,
>
> Is there any way to ask an IDL function or procedure what keyword
> parameters it accepts? I'd like a function that takes the string name
> of an IDL procedure and returns a string array containing the names of
> all accepted keyword parameters--something like the "KEYWORDS_ACCEPTED"
> function below.
>
> IDL> plotKeywords = KEYWORDS_ACCEPTED('PLOT')
> IDL> PRINT, plotKeywords
> BACKGROUND CHARSIZE CHARTHICK CLIP COLOR FONT LINESTYLE MULTI NOCLIP
> NOERASE NSUM POSITION....
>
> Maybe someone with experience writing IDL system routines knows how to
> do this?
>
> Thanks.

Hi Ted,

Here's some hackware that will return the keywords for user routines already compiled, but not for IDL system routines, not routines using the "hidden" option to the !Compile flag.

Not pretty, but yours to play with...

Andrew

```
PRO Keywords_accepted, routine_name, PROC=proc, FUNC = func


; 11-Apr-2002 A.D. Cool  Assuming a routine is already compiled, return
the keywords for it.
;                       Doesn't work for IDL system routines... ;-(
;                       Or for routines compiled with !Compile_opt =
hidden

  print,'routine_name = ',routine_name

  cmd = 'Help,Name=' + routine_name + $
        ',Out=KW_Text,/Rout,proc=' + String(proc) + ',func=' +
```

```
String(func)

  result = EXECUTE(cmd)
  If result EQ 0 Then Begin
    Message,'Error in Keywords_accepted getting Help for ' +
routine_name,/INFO
    RETURN
  Endif

;  help,Kw_text
;  print,KW_text,format='(a)'

  rn_len = STRLEN(routine_name)
  cmd = 'kw_pos=STRPOS(kw_text(2), "' + routine_name + '")'
  result = EXECUTE(cmd)
  KW_pos = STRPOS(kw_text(*),routine_name)
  KW_pos = WHERE(KW_pos NE -1)
  If KW_pos(0) Eq -1 Then Begin
    Message,'No Keywords available for ' + routine_name,/INFO
    RETURN
  Endif

; concatenate these lines...

  KW_line = KW_text(Kw_pos(0))
  Kw_line = STRCOMPRESS(KW_line)
  Kw_line = STRMID(KW_line,rn_len+1,STRLEN(KW_line))
  upper = WHERE(BYTE(KW_line) GE 65 AND BYTE(KW_line) LE 90)
  KW_upper = STRMID(KW_line,upper(0),STRLEN(KW_line))
  print,'Keywords = ',KW_upper

END
```


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