
Subject: sec : U Re: Ascertaining Keyword Parameters
Posted by [Andrew Cool](#) on Thu, 11 Apr 2002 05:37:58 GMT
[View Forum Message](#) <> [Reply to Message](#)

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

Andrew D. Cool .->-.
Electromagnetics & Propagation Group `-<-'
Surveillance Systems Division Transmitted on
Defence Science & Technology Organisation 100% recycled
PO Box 1500, Salisbury electrons
South Australia 5108

Phone : 061 8 8259 5740 Fax : 061 8 8259 6673
Email : andrew.cool@dsto.defence.gov.au
