Subject: Error handling by build-in IDL routines
Posted by Frank Holland on Mon, 15 Mar 1999 08:00:00 GMT
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Hi!

I have a question about error handling by build-in IDL routines.
Consider the following example:

fritz = 'the cat'
print, median(fritz)

IDL replies with:
% MEDIAN: Expression must be an array in this context: FRITZ.
% Execution halted at: $MAIN$

My question:
How does the function MEDIAN knows the name of the parameter (i.e. FRITZ) I passed into it? How can I implement this functionality into my own IDL routines?

Thanks for any suggestions,

Frank

Subject: Re: Error handling by build-in IDL routines
Posted by William Daffer on Sat, 20 Mar 1999 08:00:00 GMT
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"R.Bauer" <R.Bauer@fz-juelich.de> writes:

> Vapuser wrote:
>
>> "R.Bauer" <R.Bauer@fz-juelich.de> writes:
>>
>>> Try this!
>>>
>>> PRO t2,test
>>>
>>>   HELP,/recall,output=output
>>>   for_test=(STR_SEP(output[1],','))[1]
>>>   varsize=SIZE(routine_names(for_test,fetch=-1),/type)
>>>   VarValue = Routine_Names(for_test, FETCH=-1)
>>>
>>>   IF test EQ varvalue THEN IF varsize NE 4 THEN $
>>>   MESSAGE,'Expression must be of type FLOAT:'+for_test,/info
>>>

>>> END
>>>
>>> dd='dummy'
>>> t2,dd
>>>
>>> % T2: Expression must be of type FLOAT:dd
>>>
>>>
>>> R.Bauer
>>
>>   I don't think this work in a procedure.
>>
>>   If anyone out there in RSI land is listening...
>>
>>   It would be nice to have a function like the Perl package Carp.pm,
>> which reports errors from the line number of the invocation of Carp's
>> calling routine. So, say you have a perl routine foo which reports
>> some error by calling carp. The linenumber given in the error message
>> emitted by Carp is the line at which foo is called, not the line at
>> which Carp is called. That way, you can write error handling code that
>> doesn't have to keep track of the stack, and depend on the output from
>> help.
>
> help,call=call reports this.
>
> another example for working in a procedure is:
> called by t3 :
>
> IDL> t3
> % T2: Expression must be of type FLOAT:doof
>
>
> both are seperate files.
>
>
> PRO t3
>
>   doof=1
>   t2,doof
>
> END
>
> -----------
>
> PRO t2,test
>
>   IF N_PARAMS() LT 1 THEN BEGIN
>   MESSAGE,'Try: t2,test',/info

```
>       RETURN
>     ENDIF
>
>     HELP,call=call
>     ; T2 <C:\t2.pro(   8)>
>     ;  T3 <C:\t3.pro(   4)>
>     ;  $MAIN$
>
>     help_of_interest=within_brackets(call[1],brackets=['<','('])
>     IF help_of_interest EQ '' THEN BEGIN
>
>       HELP,/recall,output=output
>       for_test=(STR_SEP(output[1],','))[1]
>
>       varsize=SIZE(routine_names(for_test,fetch=-1),/type)
>       VarValue = Routine_Names(for_test, FETCH=-1 )
>
>       IF test EQ varvalue THEN IF varsize NE 4 THEN $
>       MESSAGE,'Expression must be of type FLOAT:'+for_test,/info
>
>       ENDIF ELSE BEGIN
>       txt=get_file(help_of_interest)
>       line=within_brackets(call[1],brackets=['(',')'])
>      ;4
>       cmd=txt[line-1]
>       for_test=(STR_SEP(cmd,','))[1]
>       varsize=SIZE(routine_names(for_test,fetch=-1),/type)
>       VarValue = Routine_Names(for_test, FETCH=-1 )
>
>       IF test EQ varvalue THEN IF varsize NE 4 THEN $
>       MESSAGE,'Expression must be of type FLOAT:'+for_test,/info
>     ENDELSE
>
>  END
>
>
>
```

  Thanks! This looks pretty useful!

whd

--
My mail address has been mangled by my mailer. Send replies to...
daffer@primenet.com

--
Outside of a dog, a book is man's best friend

Inside of a dog, it's too dark to read.
Groucho Marx.