Subject: Re: keyword question

Posted by davidf on Wed, 23 May 2001 16:18:51 GMT

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Randall Skelton (rhskelto@atm.ox.ac.uk) writes:

- > I am trying to have an array \*optionally\* returned using a keyword
- > and I don't know the dimension of the array prior to the call. Why is
- > it that the passed keyword needs to be defined in IDL prior to being used
- > as a keyword?

>

> What am I doing wrong here?

You are using the wrong function to check the keyword. KEYWORD\_SET should \*only\* be used to test keywords that have a binary function. That is, they are either on or off, true or false, 0 or 1, etc.

What you want to know is if you keyword is \*defined\* or not. You use N\_ELEMENTS to tell you this:

IF N Elements(b) EQ 0 THEN b = FltArr(10)

Here is an article containing more information on this topic:

http://www.dfanning.com/tips/keyword\_check.html

Cheers,

David

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

Toll-Free IDL Book Orders: 1-888-461-0155

Subject: Re: keyword question

Posted by John-David T. Smith on Wed, 23 May 2001 16:35:44 GMT

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## David Fanning wrote:

>

> Randall Skelton (rhskelto@atm.ox.ac.uk) writes:

>

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- > true or false, 0 or 1, etc.

- > What you want to know is if you keyword is \*defined\* or
- > not. You use N\_ELEMENTS to tell you this:

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Actually, since he's trying to return something, he should use arg present() (which really should be called by reference() or something). This doesn't check if the keyword is defined or note (presumably you don't care), but just whether its value at the main level can be altered:

if arg\_present(b) then b = fltarr(10)

Arg\_present() was added some time ago to solve just this type of problem (which RSI did internally with IDL functions quite a bit).

JD