Subject: Re: Curious Keywords
Posted by kspencer on Thu, 27 Feb 1997 08:00:00 GMT
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John-David Smith <	idsmith@astrosun.tn.cornell.edu>	writes:

- > Hi folks,
- > A Keyword question:
- > I was curious how IDL built-ins can distiguish a passed keyword with an
- > undefinded variable from a keyword never passed at all, and why this
- > feature is not implemented in the language itself.
- > E.G. :
- > I can say (for some undefined variable UNDEF):
- > plot, findgen(100), findgen(100)/99.\*2\*!PI,POLAR=UNDEF
- > and get a straight line. (Or I can set UNDEF=1 and get a spiral o'
- > Archimedes).
- > I cannot, however, say:
- > plot, findgen(100), findgen(100)/99.\*2\*!PI, THICK=UNDEF
- > Since this generates an "a undefined" error message. This implies that
- > plot \*knows\* I am using the keyword "THICK", even when I am passing an
- > undefined variable -- a possibility which most of us discovered the hard
- > way is not implementable in IDL code. That is, if IDL's plot routine
- > were written in IDL code, the previous call would be equivalent, for all
- > practical purposes, to a call in which the keyword were ommitted.
- > Any thoughts?
- > JD

The reason for this behavior is that the default value of UNDEF in both cases is 0. For the POLAR keyword, supplying a 0 means don't do anything, so it doesn't. But supplying 0 to THICK generates an error because the line has to have \*some\* thickness to it.

Dig? Kevin	

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