Subject: Re: Passing zero as a Parameter/ NOT KEYWORD_SET Posted by davidf on Tue, 29 Jun 1999 07:00:00 GMT

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J.D. Smith (jdsmith@astrosun.tn.cornell.edu) writes:

- > I just took a look at your article again, and I fear I must take issue
- > with the very first statement:
- > "Despite what your colleague may have told you, or what you believe you
- > read in the IDL documentation, it is NOT possible to reliably determine
- > if a keyword
- > was used in a call to your program."

>

- > I disagree. Though I would never do this myself, you can easily get
- > this behaviour, vz.

>

- pro testme, KEY=k
- if n_elements(k) ne 0 OR arg_present(k) then \$ >
- print, 'You used KEY!' else \$
- print, 'You neglected KEY!' >
- > end

Oh, well, of course I meant "impossible with the tools RSI gives you, but not impossible if you write your own variations using arcane knowledge of how the tools RSI gives you *really* work, despite their names". I'm annoyed with myself for having settled for the shorter paragraph and been found out. :-)

- > For it must be either that k is undefined by virtue of not being passed
- > at all, or by virtue of being an as-yet undefined (and therefore
- > by-reference) variable passed in from above. The former case we can
- > detect with n_elements(), the latter case with arg_present(). I
- > encourage you to try to find an example of something which is both
- > undefined, and also passed by value. This would be the only thing which
- > could escape detection in the above algorithm.

Well, this is not such a stretch as you might imagine. I remember a very strange problem with compound widgets. Let's see, I think if use Set Value with the value of 1...Oh, I can't remember exactly now. But I do remember is was caused by this very thing: setting a value to a scalar constant when no one in the world would think to do it except the students in my classes who naively did what I told them to do. :-(

- > When I first urged RSI to give us arg_present(), I had in mind exactly
- > the type of application you mention at the end of your page. Your
- > strenuous warning might disincline readers from its use, but it really

> has proven invaluable.

Indeed, that is *exactly* what it is meant to be used for. I just wish they hadn't given it such an unfortunate name. But I would certainly use it for that purpose myself.

- > I *don't* recommend using the above method, since you end up with all
- > sorts of undefined variables which are silently created and unused.
- > This is not likely what the user expects. It does open the possibility
- > for using keyword arguments as strings without being strings, e.g.

>

> mypro, KEY=TRUE

>

- > but this is rather silly, I'd say, when you can just as easily use
- > /KEY. But since you made such a strong point about it being impossible,
- > I couldn't keep it to myself :).

Any article from you, JD, is *always* much appreciated. :-)

- > The rest of the page makes good sense though. I hope this doesn't
- > qualify as bugging you day and night;)

I'd make the appropriate change to the article, but I'm afraid you and I (and perhaps Martin after he has a chance to cogitate a bit in this newsgroup) will be the only ones to appreciate the truth of the remark. :-)

Cheers.

David

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