
Subject: Re: Passing optional parameters through a wrapper routine

Posted by [davidf](#) on Tue, 08 Feb 2000 08:00:00 GMT

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Kenneth P. Bowman (bowman@null.edu) writes:

> The _EXTRA keyword handles passing keyword parameters through a wrapper
> routine, but what about optional parameters?

_Extra (and _Ref_Extra, for that matter) apply only to *KEYWORD*
parameters. Positional parameters do not count.

> If my wrapper for TVRD has
> one of my own (mandatory) parameters, do I have to do the following?
>
> PRO TVRD_WRAPPER, my_arg, x0, y0, nx, ny, channel, _EXTRA = tvrd_keywords
>
> CASE N_PARAMS() OF
> 1 : image = TVRD(_EXTRA = tvrd_keywords)
> 2 : image = TVRD(x0, _EXTRA = tvrd_keywords)
> 3 : image = TVRD(x0, y0, _EXTRA = tvrd_keywords)
> 4 : image = TVRD(x0, y0, nx, _EXTRA = tvrd_keywords)
> 5 : image = TVRD(x0, y0, nx, _EXTRA = tvrd_keywords)
> 6 : image = TVRD(x0, y0, nx, ny, channel, _EXTRA = tvrd_keywords)
> ELSE : MESSAGE, 'Incorrect number of arguments.'
> ENDCASE
> ...

That's one way to do it. :-)

Another way is to define any parameter that is NOT passed
in. That might make more sense, since this is standard
operating procedure for any optional parameter.

```
IF N_Elements(y0) EQ 0 THEN y0 = 0  
IF N_Elements(nx) EQ 0 THEN nx = 100  
etc.
```

> (Is TVRD just counting the number of passed
> parameters and not checking to see if they are defined?)

Hard to know what TVRD is doing, but what *you*
better be doing is making sure any variable you
plan to use is defined. :-)

Cheers,

David

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