
Subject: Re: CASE statement

Posted by [weitkamp](#) on Fri, 05 Oct 2001 18:44:23 GMT

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Reimar,

May I summarize the first statement you make like this: "KEYWORD_SET is a nice function, but has the wrong name"?

It actually also has some counterintuitive features. This one, for example:

```
IDL> PRINT, KEYWORD_SET([0])
```

```
1
```

The online help describes this behavior correctly, but accidentally passing a 1-element array instead of a scalar happens easily. Wasn't there something here recently about the pitfalls of IDL making a difference between scalars and single-element arrays?

Timm

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Reimar Bauer <r.bauer@fz-juelich.de> wrote in message

news:<3BBC0706.B983FB42@fz-juelich.de>...

> David Fanning wrote:

>>

>> George McCabe (george.mccabe@gsfc.nasa.gov) writes:

>>

>>> ;+

>>> ; PURPOSE:

>>> ; "On or Off", turn any variable into a strict logical type

>>> ; with only two values 0 or 1

>>> ;

>>

```
>> Impressive code, George. But couldn't this be
>> more simply done with this:
>>
>> on_off = Keyword_Set(variable)
>>
>
>
> Hi David and all others,
>
>
> the most problem with all these functions arg_present, n_elements,
> keyword_set
> is that's most beginners believe that's some of them only works by
> keywords
> and some only for positional parameters.
>
> To learn something about IDL and its parameters here are two exercises
> of our course.
>
>
> regards
>
> Reimar
>
```

>

> 1)

> There are three functions given

>

>

>

> FUNCTION test1,minimum=min_val

> IF KEYWORD_SET(min_val) THEN RETURN,1 ELSE RETURN,0

> END

>

>

> FUNCTION test2,minimum=min_val

> IF ARG_PRESENT(min_val) THEN RETURN,1 ELSE RETURN,0

> END

>

>

> FUNCTION test3,minimum=min_val

> IF N_ELEMENTS(min_val) GT 0 THEN RETURN,1 ELSE RETURN,0

> END

>

> Fill out the form:

>

>

>

```

>
> CALL   | test1 | test2 |test3
> _____
> PRINT, testX( )      |   |   |
> _____
> PRINT, testX(minimum=0)   |   |   |
> _____
> PRINT, testX(minimum=10)  |   |   |
> _____
> PRINT, testX(minimum=-10) |   |   |
> _____
> mv=0 & PRINT, testX(minimum=mv) |   |   |
> _____
> mv=10 & PRINT, testX(minimum=mv) |   |   |
> _____
> PRINT, testX(minimum=mv2)   |   |   |
> _____
>
>
>
>
>
> 2)
> There are three functions given

```

```
>
>
>
> FUNCTION test1,min_val
>   IF KEYWORD_SET(min_val) THEN RETURN,1 ELSE RETURN,0
> END
>
>
> FUNCTION test2,min_val
>   IF ARG_PRESENT(min_val) THEN RETURN,1 ELSE RETURN,0
> END
>
>
> FUNCTION test3,min_val
>   IF N_ELEMENTS(min_val) GT 0 THEN RETURN,1 ELSE RETURN,0
> END
>
> Fill out the form:
>
>
>
>
> CALL   | test1 | test2 |test3
> _____
```

```
> PRINT, testX( )      |  |  |
> _____
> PRINT, testX(0)      |  |  |
> _____
> PRINT, testX(10)     |  |  |
> _____
> PRINT, testX(-10)    |  |  |
> _____
> mv=0 & PRINT, testX(mv)  |  |  |
> _____
> mv=10 & PRINT, testX(mv)  |  |  |
> _____
> PRINT, testX(mv2)     |  |  |
> _____
>
>
>
> --
> Reimar Bauer
>
> Institut fuer Stratosphaerische Chemie (ICG-1)
> Forschungszentrum Juelich
> email: R.Bauer@fz-juelich.de
```

> <http://www.fz-juelich.de/icg/icg1/>

> =====

> a IDL library at ForschungsZentrum Juelich

> http://www.fz-juelich.de/icg/icg1/idl_icglib/idl_lib_intro.html

>

> <http://www.fz-juelich.de/zb/text/publikation/juel3786.html>

> =====

>

> read something about linux / windows

> <http://www.suse.de/de/news/hotnews/MS.html>
