Subject: Re: assignment inside boolean expression Posted by Liam E. Gumley on Mon, 10 Jul 2000 07:00:00 GMT

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Patrick Broos wrote:

- > I was wondering if it's common knowlege that one can put an IDL
- > assignment inside
- > a boolean expression (like in the C language). For example

>

- > if (v = 0) then ... assigns v and does not execute the "then"
- > statement, while
- > if (v = 1) then ... assigns v and does execute the then.

>

> Just as in C I find this leads to really nasty bugs.

Curious: I've never even considered using this syntax.

Enclosing a statement inside parentheses turns it into an expression, which has a type and a value, e.g.

The variables in the right hand side of the statement must necessarily be defined:

IDL > help, (zv = tv + vt)

% Variable is undefined: VT.

% Execution halted at: \$MAIN\$

If you take the following statements:

and remove the parentheses, the equivalent code is

IDL>
$$v = 0$$

IDL> if (v) then print, 'True'
IDL> help, v
 V INT = 0

$$IDL > v = 1$$

IDL> if (v) then print, 'True'
True
IDL> help, v
V INT = 1

Recall that in IDL, integers with odd non-zero values are Boolean 'True'. Beware of floats and doubles though, where any non-zero value is Boolean 'True'.

Cheers, Liam. http://cimss.ssec.wisc.edu/~gumley