
Subject: Re: multi conditional for loops

Posted by [Nigel Wade](#) on Wed, 21 Jun 2000 07:00:00 GMT

[View Forum Message](#) <> [Reply to Message](#)

K Mankoff wrote:

```
>
> Hi *,
> I am interested in coding with a c/c++ style multi-conditional for
> loop.
>
> c++ ex:
> for ( int i = 0; ( ( i < 10 ) && ( j <= 4 ) ); i++ )
> {
>     /* do something */
> }
>
> Here is sample IDL code. It runs but produces very interesting
> results. (this is IDL5.3 on Linux RH6.2)
>
> PRO test
> j = 0
> FOR i = 0, ((j LE 4) AND 10) DO BEGIN
>     j = j + 2
>     PRINT, i, j
> ENDFOR
> END
>
> thanks for any info,
> ken.
```

The value of a conditional is either 0 or 1. So, the loop will execute either 1 or 2 times depending on the value of the conditional. (J < 4) => 1, 1 AND 10 => 0, so the terminating expression is 0 and the loop should execute once (FOR i=0, 0 DO...). The first and second expressions are only evaluated before the loop begins, not during its execution, so even if the condition changes the value used as the limit will not.

What you need to use is a while loop.

--

Nigel Wade, System Administrator, Space Plasma Physics Group,
University of Leicester, Leicester, LE1 7RH, UK
E-mail : nmw@ion.le.ac.uk
Phone : +44 (0)116 2523568, Fax : +44 (0)116 2523555
