
Subject: do I need this IF statement?

Posted by [Margrethe](#) on Thu, 24 Mar 2005 10:07:01 GMT

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

I find that in some cases I really need an IF statement to make sure that I don't address some arrays with index -1. In the example below I have vectorized the inner loop over j, but have kept the loop over i. Is there a way to avoid the IF statement? Grateful for help! -Margrethe

```
FOR i=0,N-1 DO BEGIN
```

```
  d = sqrt ( x(i) ^2 + y (INDGEN(N)) ^2 )
  indx = WHERE ( d LT 3.*sigma, ct )
```

```
  IF (ct GT 0) THEN BEGIN
```

```
    v = v1 + vr (i,indx)
    p = some_function ( x(i), y(indx) )
    profile = profile + TOTAL ( p * image(i,indx) )
```

```
  ENDIF
```

```
ENDFOR
```

Subject: Re: do I need this IF statement?

Posted by [R.Bauer](#) on Sat, 26 Mar 2005 00:25:40 GMT

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

Margrethe wrote:

```
>
> I find that in some cases I really need an IF statement to make sure
> that I don't address some arrays with index -1. In the example below I
> have vectorized the inner loop over j, but have kept the loop over i.
> Is there a way to avoid the IF statement? Grateful for help! -Margrethe
>
> FOR i=0,N-1 DO BEGIN
>
>   d = sqrt ( x(i) ^2 + y (INDGEN(N)) ^2 )
>   indx = WHERE ( d LT 3.*sigma, ct )
>
>   IF (ct GT 0) THEN BEGIN
>
>     v = v1 + vr (i,indx)
>     p = some_function ( x(i), y(indx) )
>     profile = profile + TOTAL ( p * image(i,indx) )
>
```

```
> ENDIF
>
> ENDFOR
```

My suggestions to your syntax and usage of WHERE.

If you write index operations please use []. At the moment I can't decide if x,y,vr,image is an array or a function. I suppose they are arrays. In the past only () were used by functions and arrays and we got a lot of conflicts. Because idl doesn't know either what it should be. It could be both but if once is recognised it's impossible to have the other one in the same code.

Whenever you use WHERE you should use an IF condition to test if you get a result!

cheers

Reimar

--

Forschungszentrum Juelich
email: R.Bauer@fz-juelich.de
<http://www.fz-juelich.de/icg/icg-i/>

=====

a IDL library at ForschungsZentrum Juelich
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_lib_intro.html
