
Subject: Re: using WHERE to search for multiple values

Posted by [R.Bauer](#) on Mon, 29 Apr 2002 15:13:43 GMT

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Doug Martin wrote:

>
> I'm trying to do something like the following:
>
> w=where(im eq val)
>
> with im a byte array (say, 640x480)
> and val an array (say, 10 to 40 long)
>
> I want to find where im is equal to any of the values in val. But,
> val is not always the same size.
>
> Is there a way to do this using one WHERE call? There seems to be a
> giant time difference between:
>
> for i=0,(size(val))[1]-1 do begin
> w=where(im eq val(i))
> ...
> endfor
>
> and
>
> w=where(im eq val(0) or val(1) or val(2) or ...)
>
> (but I can't do the above since val has different sizes from call to
> call)
>
> Sorry for the run-on nature of this post.
>
> Thanks,
> Doug

If you like to have something like this

```
; idx=which_indices([10,2,3,20,4,12],[10,20,30])  
; print,idx  
; 0      3
```

http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/which_indices.tar.gz

or you would like to have something like

PURPOSE:

```
; This function applies different boolean operators to two vectors.  
; It's a wrapper for the functions a_and_b, a_or_b, a_xor_b, a_not_b  
;  
;  
; CATEGORY:  
; MATH  
;  
; CALLING SEQUENCE:  
; Result = VekLogik(vec1, vec2)
```

http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl_html/dbase/download/veklogik.tar.gz

For further routines have a look at

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

regards

Reimar

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a IDL library at ForschungsZentrum Juelich

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

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