
Subject: Re: using WHERE to search for multiple values
Posted by [James Kuyper](#) on Fri, 26 Apr 2002 12:15:46 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)
```

```
mask = where(im ne im)
for i=0, count=(size(val))[1]-1 do begin
  mask = mask OR (im eq val[i])
endfor
w = where(mask)
```
