
Subject: Re: Vector comparison.

Posted by [Chris\[1\]](#) on Thu, 20 Nov 2003 16:08:14 GMT

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Darnit! I was so proud of my answer... only to find that Chris Lee already proposed the same method (the "memory-hogging" one), albeit using more lines and this "if count eq 0 then ..." after WHERE, which always annoys me for some stupid reason. It can be avoided, which gives me an excuse to post my suggestion anyway:

```
function Get_Match, a, b
  na = n_elements(a) & nb = n_elements(b)
  return, where(total((rebin(a,na,nb) - rebin(transpose(b), na, nb)) eq 0, 2))
end
```

Cheers,

Timm

Today at 10:09 -0000, Christopher Lee wrote:

```
> [...]
>
> function get_match,a,b
>
> ;needs some up-to-date version of IDL, 5.4 I think.
>
> na=n_elements(a)
> nb=n_elements(b)
>
> ;some checks go here to make sure the world won't explode, an exercise
> ;for the reader.
>
> reb_a=[na,nb]
> ref_a=[na,1]
> reb_b=[na,nb]
> ref_b=[1,nb]
>
> a_temp=rebin(reform(a, ref_a),reb_a)
> b_temp=rebin(reform(b, ref_b),reb_b)
>
> c_temp=a_temp-b_temp
> a_temp=0
> b_temp=0
>
> w=where(c_temp eq 0, count)
>
> c_temp=0
```

```
> ;memory...  
>  
> if( count gt 0) then c=w mod na  
> if( count eq 0) then c=-1  
>  
> return, c  
> end  
>  
> [...]
```

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