
Subject: Re: Search single column of array - removing nasty loop

Posted by [Yngvar Larsen](#) on Tue, 29 Nov 2011 12:49:39 GMT

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

On Nov 29, 1:40 pm, Yngvar Larsen <larsen.yng...@gmail.com> wrote:

```
> (1) The original loop is better like this.  
>  
> FOR k = 0, 359 DO FOR j = 0, 5 DO FOR i=0,1 DO $  
>   IF (total(array[i,j,k,*]) gt 0) THEN array[i,j,k,*] = 0
```

Bug fix. Should be:

```
FOR k = 0, 359 DO FOR j = 0, 5 DO FOR i=0,1 DO $  
  IF (total(array[i,j,k,*] eq 0) gt 0) THEN array[i,j,k,*] = 0
```

```
> (3) Since you are operating only on one dimension, it should really be  
> the first one for efficiency reasons. So it is better to actually keep  
> the data stored that way. If that is not possible, a transpose before  
> and after the operation might help you:
```

```
[...]  
> for ii=0L, nrow-1 do if (total(A[* ,ii] eq 0) gt 0) then A[* ,ii] = 0
```

Another bugfix. Should of course be
for ii=0L, nrow-1 do if (total(array[* ,ii] eq 0) gt 0) then
array[* ,ii] = 0

--

Yngvar
