
Subject: Re: array dimension change

Posted by [xiao zhang](#) on Wed, 29 Oct 2008 20:17:05 GMT

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On Oct 29, 8:59 am, Jeremy Bailin <astroco...@gmail.com> wrote:

> On Oct 28, 6:57 pm, xiao <littledd...@gmail.com> wrote:

>

>

>

>> Hi~ guys~ I have a question here. I wrote a small program like the
>> following, but why the two print statement print out the same thing?
>> It is suppose to print out the different elements because i know the
>> contents are different in the original array. I can name another
>> array with same dimension and do the same thing , then it works, the
>> elements changed , but why it did not change as the following?

>> Many Thanks~

>

>> soilw00 = Read_Binary('/nas/rstor6/xzhang/RAMS/build/60/soil/AVNdat/fh .
>> 0024_tl.press_gr.onedeg.SoilW', Data_Type = 4, Data_Dims =
>> [360,181,4])

>

>> help,soilw00

>

>> print, soilw00(265:325,110:130,0)

>

>> for kk=0,4-1 do begin
>> for jj=0,181-1 do begin
>> for ii=0,360-1 do begin
>> soilw00(ii,jj,kk)=soilw00(359-ii,jj,kk)
>> endfor
>> endfor
>> endfor

>

> First of all, the loops through jj and kk are really expensive. Get
> rid of them!

>

> for ii=0,360-1 do begin
> soilw00[ii,*,*]=soilw00[359-ii,*,*]
> endfor

>

> Secondly, I think what you really wanted was:

>

> for ii=0,360/2-1 do begin
> soilw00[ii,*,*]=soilw00[359-ii,*,*]
> endfor

>

> In your original case, you first reverse the structure and then
> reverse it back again to get what you started with!

```
>  
> Finally, why don't you just use the built-in REVERSE function?  
>  
> soilw00 = reverse(soilw00, 1)  
>  
> -Jeremy.
```

Thank you ~~~ the reverse works~~~ :)
