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Subject: Re: array dimension change

Posted by [russell.grew](#) on Wed, 29 Oct 2008 00:15:17 GMT

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Possibly because soilw00 is a structure and not your typical fltarr.

There be special rules with structures.

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Subject: Re: array dimension change

Posted by [Jeremy Bailin](#) on Wed, 29 Oct 2008 13:59:08 GMT

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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.

---

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?  
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>

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>> endfor  
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> First of all, the loops through jj and kk are really expensive. Get  
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>
> Finally, why don't you just use the built-in REVERSE function?
>
> soilw00 = reverse(soilw00, 1)
>
> -Jeremy.
```

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

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