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 guestion 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 ji 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~~~ :)
```