Subject: Re: array dimension change Posted by Jeremy Bailin on Wed, 29 Oct 2008 13:59:08 GMT View Forum Message <> Reply to Message

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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.

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