Subject: Re: why do not the results agree?
Posted by lixiaoyao on Thu, 21 Apr 2005 01:54:24 GMT
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are you sure the contour in two cases are the same?
when I draw it,it just not the same.
Thanks a lot
David Fanning wrote:
> lixiaoyao writes:
>
>> Hi all
>> This time I have read all the manual for contour,I have a
question,my
>> code is
>> in the following. I will say problem following,please help me.
>> ;DEVICE,RETAIN=2
>> set_plot,'ps',/copy
>> device,filename='isothermal.ps'
>> device,/landscape
>>
>>
>> MAX=100
>> x=2*findgen(MAX)/MAX+0.1
>> y=2*findgen(MAX)/MAX+0.1
>> F=exp(y^2/2-alog(y))
>> G=(exp(2*alog(x)+1/x))
>> R=fltarr(MAX,MAX)
>> for i=0,MAX-1 do R(i,*)=F
>> for j=0,MAX-1 do R(*,j)/=G
>>
contour,R,x,y,levels=[0.6,0.7,0.8,0.892521,1.0,1.1,1.2],c_la
bels=[1,1,1,1,1,1,1],xtitle='Dimensionless
>> Radius',ytitle='Mach number',title='Isothermal case'
>>
>> until now,it give the correct answer.
>>
>> MAX=100
>> x=2*findgen(MAX)/MAX+0.1
>> y=2*findgen(MAX)/MAX+0.1
>> F=exp(y^2/2-alog(y))
>> G=(exp(2*alog(x)+1/x))
>> R=fltarr(MAX,MAX)
>> for i=0,MAX-1 do R(i,*)=F
>> for j=0,MAX-1 do R(*,j)/=G
>>
contour,R,x,y,level=[0.892521],path_xy=xy,path_info=info,clo sed=0,/path_double
>> for I=0,(N_ELEMENTS(info)-1) DO BEGIN
>> S=[INDGEN(info(I).N),0]

```
>>      print,xy(*,INFO(I).OFFSET+S)
>>  ;    plots,xy(*,INFO(I).OFFSET+S),/norm
>>  endfor
>>  this times contour results do not agree with I got from the above
code.
>>  I have read all the contour help file,I just can not know to solver
>>  it.IF who knows the question is,please tell me.
>
>  I don't know. It works for me. You will need these two
>  programs from my web page to run the code below:
>
>     http://www.dfanning.com/programs/loaddata.pro
>     http://www.dfanning.com/programs/scale_vector.pro
>
>  Cheers,
>
>  David
>
>  PRO Example
>
>     x = findgen(41)
>     y = findgen(41)
>     r = loaddata(2)
>     r = scale_vector(r, 0.4, 1.4)
>
>     TVLCT, 0, 255, 0, 1
>     TVLCT, 255, 255, 0, 2
>
>     window, 1
>     device, decomposed=0
>     contour,R,x,y,levels=[0.6,0.7,0.8,0.892521,1.0,1.1,1.2],$
>        c_labels=[1,1,1,1,1,1,1],$
>        xtitle='Dimensionless Radius',ytitle='Mach number',$
>        title='Isothermal case', $
>        c_colors=[255, 255, 255, 2, 255, 255, 255]
>
>     contour,R,x,y,level=[0.892521],path_xy=xy,$
>        path_info=info,closed=0,/path_double
>
>     window, 2
>     contour,R,x,y,levels=[0.6,0.7,0.8,0.892521,1.0,1.1,1.2],$
>        c_labels=[1,1,1,1,1,1,1],$
>        xtitle='Dimensionless Radius',ytitle='Mach number',$
>        title='Isothermal case', /Nodata
>
>     for I=0,(N_ELEMENTS(info)-1) DO BEGIN
>         S=[INDGEN(info(I).N),0]
>         print,xy(*,INFO(I).OFFSET+S)
```

```
>         plots,xy(*,INFO(I).OFFSET+S),/norm, color=1, linestyle=2
>     endfor
>
> END
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming: http://www.dfanning.com/
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