
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_labels=[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,closed=0,/path_double

>> for l=0,(N_ELEMENTS(info)-1) DO BEGIN

>> S=[INDGEN(info(l).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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