Subject: Re: help with data points of contour.
Posted by Nando Iavarone on Wed, 25 Aug 1999 07:00:00 GMT
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<HTML>
Peter Brooker wrote:
<BLOCKQUOTE TYPE=CITE>Consider the following simple program.

<P>nn=101

x=findgen(nn)-(nn-1.)/2.

y=x

z=fltarr(nn,nn)

for i=0,(nn-1) do begin

for j=0,(nn-1) do begin

   z(i,j)=sqrt(x(i)^2+y(j)^2)

   endfor

   endfor

contour,z,x,y,levels=[10,20,30,40]

end</BLOCKQUOTE>
a question.why do you use loop?

 I use the technique:

<P>pro test

<P>   nn=101

<P>   x = findgen(nn)-(nn-1.)/2.

    y = x

    x = x#replicate(1,nn)

    y = replicate(1,nn)#y

<P>   z = sqrt(x^2+y^2)

end

<P>don't you think it is more readeble and maybe, I didn't test it, quicker?

<BLOCKQUOTE TYPE=CITE>I now want to determine the x,y data points that
form the z=20 contour.</BLOCKQUOTE>
I think that if you are interested only in discrete value of your coordinate,it
is sufficient to do:

<P>index   = where(z eq 20)

x_index = index mod nn

y_index = index / nn

print, x_index, y_index

<P>bye.

<PRE>--
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