

Subject: Re: help with data points of contour.
Posted by [Ben Tupper](#) on Tue, 24 Aug 1999 07:00:00 GMT
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[illegible]

<BLOCKQUOTE TYPE=CITE>Consider the following simple program.

```
<P>nn=101
<BR>x=findgen(nn)-(nn-1.)/2.
<BR>y=x
<BR>z=fltarr(nn,nn)
<BR>for i=0,(nn-1) do begin
<BR>for j=0,(nn-1) do begin
<BR>&nbsp;&nbsp;&nbsp;z(i,j)=sqrt(x(i)^2+y(j)^2)
<BR>&nbsp;&nbsp;&nbsp;endfor
<BR>&nbsp;&nbsp;&nbsp;endfor
<BR>contour,z,x,y,levels=[10,20,30,40]
<BR>end</BLOCKQUOTE>
a question.why do you use loop?
<BR>&nbsp;&nbsp;&nbsp;I use the technique:
```

<P>pro test

 nn=101

```
<P>&nbsp;&nbsp;&nbsp;  x = findgen(nn)-(nn-1.)/2.  
<BR>&nbsp;&nbsp;&nbsp;  y = x  
<BR>&nbsp;&nbsp;&nbsp;  x = x#replicate(1,nn)  
<BR>&nbsp;&nbsp;&nbsp;  y = replicate(1,nn)#y
```

```
<P>&nbsp;&nbsp;&nbsp;  z = sqrt(x^2+y^2)
<BR>&nbsp;&nbsp;&nbsp; 
<BR>end
```

<P>don't you think it is more readable 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:

[illegible]

<P>bye.

```
<PRE>--&nbsp;
```

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