Subject: overplotting data and contours for small images
Posted by lucio on Fri, 17 Mar 1995 10:04:52 GMT
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Hello,
I have a 16x16 matrix ima.data (which contains a chi-square map) which has been generated by "fit stepping" on two parameters.

I know that my parameters range from 10 to 13 and to 142 to 145 (there are 16 steps of 0.2 on each axis).

Therefore I plot with :

```
xar=findgen(16)*0.2+10
yar=findgen(16)*0.2+142
 contour,ima.data,xar,yar,levels=[0,2.3,4.61,9.21],xrange=[10 ,13],yrange=[142,145]
```

(the levels are the usual 68%, 90% and 99% confidence contours).

What I get is that IN THE PLOT the centre of the contours (i.e. the minimum of the image) is located 2 steps left in x (i.e -0.4 from the real x) and 2 steps up in y (i.e. +0.4 from the real y).

How does "contour" correlate positions in the image with the x and y arrays ? Are there any artifact due to the fact my images have a small number of pixels ?

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