
Subject: Re: Regarding the Fit_Ellipse Program
Posted by [plim.dreaming](#) on Wed, 27 Feb 2008 23:47:29 GMT
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> Yes, so what you need to do is to compute the ellipse
> in a way that does not depend on the graphic device used and
> then plot it. Can I just quickly ask what is your starting data
> again (that is, how exactly you define your points in the first
> place)?
>
> Paolo> B

Hi Paolo and David,

So, I went ahead and managed to create ellipses for the blobs!! I changed `set_plot,'x'` so now `!D.X_size` gives me 640 instead which the computer can crunch and produce nice figures on the screen. I would still like to convert the values for x,y, semimajor, semiminor, and center of the ellipse back to data coordinates such that I can place them on the postscript file again but `convert_coord(... /to_data)` doesn't do the job.

Some code to make this more interesting:

```
contour_array = [s2c2(0,*),s2c2(1,*)] ; this is the x,y positions of  
the vertices of the polygon which defines the contour
```

```
blob_x = s2c2(0,*)  
blob_y = s2c2(1,*)
```

```
set_plot,'x'
```

```
polyfill,blob_x,blob_y,color=100,/data
```

```
D = convert_coord(blob_x, blob_y, /to_device)
```

```
result = polyfillv(d(0,*), d(1,*),640,640)
```

```
Ellipse_out = fit_ellipse(result,semiaxes=semiaxes,center=center)
```

```
plots,Ellipse_out,/device
```

```
set_plot,'ps  
device,filename='Surface_Plots.ps'  
New_coords = convert_coord(Ellipse_out, /to_device)  
plots,s2c2(0,*),s2c2(1,*)  
plots,New_coords,/device  
device,/close
```

Much thanks!
Bruno

p.s. I haven't banged my head on the IDLanROI more than being capable of making the object:

```
blob_roi = OBJ_NEW('IDLanROI', blob_x, blob_y)
```

```
blob_mask = blob_roi->ComputeMask(initialize=0)
```

because I still don't see how to fit an ellipse and obtain its parameters using the object functions.
