Subject: Re: extract circle from data with idl
Posted by termybel on Thu, 12 Oct 2017 12:10:30 GMT
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Thanks to answer but I have a probelm.

You puth this: if n_elements(li) ne 1 then message, 'not exactly 1 contour'

and my program say: not exactly 1 contour

How I can solve it?

If I ask in idl " help,/str,li" and the answer is:

```
Structure CONTOUR_DBL_PATH_STRUCTURE, 6 tags, length=24, data length=20:
   TYPE           BYTE        1
   HIGH_LOW       BYTE        1
   LEVEL          INT         0
   N              LONG        7
   OFFSET         LONG        0
   VALUE          DOUBLE      9.0000000
```

and for " help,/str,lines"
LINES DOUBLE = Array[2, 5447]

My contour isn't a perfect circle. Maybe is this the problem?

This is my program where the image is a flat field panel minus dark:

```
file_ff1='ff_100s_3.fits'                    ;immagine
immagine_ff1=readfits (file_ff1, header1)      ; leggo l'immagine del flat field panel
file_dark='ff_100s_dark_3.fits'                ;immagine
immagine_dark=readfits (file_dark, header1)    ; leggo l'immagine della dark

n=100.                                       ; secondi di esposizione dell'immagine
ffp=(immagine_ff1-immagine_dark)/n

; contour per selezionare soglie di equivalore

speriamo=fltarr(2048,2048)                   ; creo una matrice 2048x2048
dimensioni=size(speriamo,/dimensions)
cubo=where(ffp lt 9.5 or ffp gt 10)



wrong_matrix=array_indices(dimensioni, cubo,/dimensions)
indxw=reform(wrong_matrix(0,*))
indyw=reform(wrong_matrix(1,*))
```

```
;ffp(indxw,indyw)=0.
;c = CONTOUR(ffp, dimensions=[512,512], Title='prova cubo')

; DATA   being the data to be contoured
level=9
contour, smooth(ffp(250:1700, 250:1700),3), path_info=li,closed=1 , path_xy=lines,
/path_data_coord, levels=[level], /path_double
 ; lix=lines(0,*)
 ; liy=lines(1,*)
 ; liyd=deriv(lix,liy)
 ;ind=where(abs(liyd) le 0.0001)

if n_elements(li) ne 1 then message, 'not exactly 1 contour'


cont_obj =obj_new('IDLanROI',lines)
void= cont_obj.ComputeGeometry(centroid=center)
;fit_ellipse(
print, center[0:1]

end
```