Subject: Re: contouring the CT slice
Posted by David Fanning on Sun, 04 May 2003 23:27:39 GMT
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Murat Maga (maga@mail.utexas.edu) writes:

> I have serial cross sections of some long bones, which I would like to
> calculate centroids and mass moments of inertia for each slice.
> The steps I have managed to do so far:
> 1.) Read the stack as a three dimensional volume:
> 2.) Calculate a threshold for segmenting the data
> 3.) Get the internal and external contours with contours function.
>
> The problem, when I look at the values of PATH_XY with PATH_DATA_COORDS
> option, those are combined points of two contours. So sorting them out
> becomes quite tricky.

Tricky, maybe, but certainly not impossible. You will
probably need the information in PATH_INFO to do it
correctly.

> The reason I need those points, I have somebody else's fortran routine
> to calculate moments based on individual points and it needs two
> separate inputs...

Say what!? How do you expect the contours to help here?

> So the first question what else I can use other than contour procedure
> to get the coordinates of external and internal contours? And what may
> be a better way to approach this problem?

You could try using ISOCONTOUR, but I think this approach
is probably fine.

Cheers,

David

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