Subject: Re: Can i avoid the loop,help me speed up,thanks
Posted by ben.bighair on Mon, 04 Aug 2008 20:44:18 GMT

On Aug 4, 9:29 am, Rongchang Chen <chenrc1...@gmail.com> wrote:
> I wrote a procedure to create sinograms from projections in
> tomography,the main part of procedure please see below.
> For large size and number projections,it's very very slow.
> Can i avoid the loop(one is OK) to speed up,or another way to create
> sinograms?
> Thank you very much!!
>
> ************
> n_sinogra:number of sinogram
> n_projection:number of projection
> files_projection:a string vector contain Directory and name of
> projection
> files_sino:a string vector contain Directory and name of sinogram
>
> for jj = 0,n_sinogram-1 do begin
>   print,'now creating',jj+1,'th sinogram'
>   sino = fltarr(sizepro[0],n_projection)
>
>   for ii=0, n_projection-1 do begin
>   image = float(read_image(files_projection[ii]))
>   some processing of image
>   sino(*,ii) = image(*,jj)
>   endfor
>
>   write_tiff,files_sino(jj),sino,/short,/float
> endfor
> *****************

Hi,

I don't think it is possible for anyone to penetrate where you are
having trouble with the given information. I think you might try
using the builtin PROFILER routine for a start. It should reveal to
you where you are spending most of your time.

Unrelated to the speed issue, you seem to be specifying TIFF output
simultaneously as a SHORT integer and a FLOAT. What type of image do
you want to be saving?

Cheers,
Ben