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Subject: Re: Can i avoid the loop,help me speed up,thanks  
Posted by [Vince Hradil](#) on Mon, 04 Aug 2008 21:31:17 GMT  
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On Aug 4, 3:44 pm, "ben.bighair" <ben.bigh...@gmail.com> wrote:

> 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

I agree with Ben - the question is: what is in the "some processing of image" step? If this can be "vectorized", then you might be able to avoid some looping.

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