
Subject: Re: help needed to make the program run faster
Posted by [gunvicsin11](#) on Mon, 12 Sep 2016 03:58:36 GMT
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On Friday, September 9, 2016 at 2:42:00 PM UTC+5:30, Markus Schmassmann wrote:

> On 09/09/2016 08:04 AM, sid wrote:

>> I need to read 500 fits files and do analysis for all this,

>>

>> So im doing like this,

>>

>> file=file_search('*.fts')

>> nn=n_elements(file)

>> for ii=0,nn-1 do begin

>> img=readfits(file(ii),h)

>> ----

>> ---some analysis----

>>

>> endfor

>> end

>>

>> in the analysis part also i have some for loops so the program takes so much time to process this job.

>>

>> So can anybody let me know whether any other faster methods are there to do this.

> Hi Sid,

>

> - use PROFILER and/or TIC & TOC to figure out what part of your code is slow

> - remove loops by vectorising

> - if all fits-images have the same dimensions and header structures you

> can put all into one array and then do analysis on all images at once, e.g.:

>

> file=file_search('*.fts')

> nn=n_elements(file)

> img0=readfits(file(0),h0)

> img=fltarr([size(img0,/dim),nn])

> img[*,*,0]=temporary(img0)

> h=strarr([size(h0,/dim),nn])

> h[*,0]=temporary(h0)

> for i=1,nn-1 do begin

> img[*,*,i]=readfits(file(i),hi)

> h[*,i]=hi

> endfor

>

> ---some analysis----

>

> - not knowing what analysis you do it is difficult to tell how to speed

> it up, but using, WHERE, SORT, UNIQ, HISTOGRAM, VALUE_LOCATE and the

> like sometimes makes it a lot faster

>
> Good luck, Markus
>
>
> [1] <http://www.harrisgeospatial.com/docs/PROFILER.html>
> [2] http://www.idlcoyote.com/code_tips/slowloops.html
> [3] <http://www.harrisgeospatial.com/docs/WHERE.html>
> [4] <http://www.harrisgeospatial.com/docs/SORT.html>
> [5] <http://www.harrisgeospatial.com/docs/UNIQ.html>
> [6] <http://www.harrisgeospatial.com/docs/HISTOGRAM.html>
> [7] http://www.harrisgeospatial.com/docs/VALUE_LOCATE.html

Thanks for the info,
Actually the main problem im facing is im using where function and
for example if im searching where(image(*,i) gt threshold,count=c)
for some rows counts will be zero,
so in that case im using if statement, that way my program becomes much slow.
Is there any way to get out of this problem.

thanks
