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Subject: Re: memory allocation on Macs  
Posted by [wlandsman](#) on Fri, 27 Jun 2008 13:40:37 GMT  
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On Jun 26, 7:43 pm, Keflavich <keflav...@gmail.com> wrote:

I think a big part of the problem is that the  
> astron routines copy a lot of the arrays. Euler is one place it  
> crashes, one of the WCS rotation programs is another.  
>

Yeah, Euler is not at all concerned about memory issues. Besides performing all calculations in double precision, it makes sure that the original arrays are not modified, and precomputes arrays of trigonometric quantities (e.g.  $\sin(\text{ra})$ )

I've put an updated version of euler.pro on  
<http://idlastro.gsfc.nasa.gov/ftp/pro/astro/euler.pro>  
which is more careful about memory issues. Let it update the input arrays ,e.g.

IDL> euler, ra,dec,select=1

But considering that you have problems with other routines too, I'd probably chunk your processing, so, for example, you only process 50 million coordinates at a time.

> also, isn't euler's syntax 'euler,ra,dec,glon,glat,1' ?

Yep, my fingers were typing faster than my brain was thinking...

--Wayne

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