Subject: Re: concatenate arrays of different sizes
Posted by vino on Fri, 28 Mar 2008 09:01:33 GMT
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On Mar 27, 9:42 pm, "R.G. Stockwell" <notha...@noemail.com> wrote:
> "vino" <astrocr...@gmail.com> wrote in message
>
> news:98fa711f-7d7e-4131-a70a-a75dfe22850d@d4g2000prg.googleg roups.com...
>
>> Hello Everyone,
>> I am trying to concatenate arrays of different sizes into a single
>> variable.The problem is as follows:
>> I am tracking about 10,000 stars through a period of six months. I
>> have a single variable containing the intensity of all stars with
>> zeros when the star is not in the field of view. I ran into memory
>> problems when i try to track for longer periods.
>
> What is time sampling on those?
>
> You have intensity (float?) for 10k stars, by how many times in that siz
> months?
>
> Every ten minutes, fits into my winxp laptop just fine.
>
> ie a = fltarr(10000,6*30*24*6)
>
> Some suggestions:
> Perhaps you could downsample the intensity time series - do
> you really need that high time resultion?
>
> You could categorize the stars into groups (based on quadrant in
> the sky, or on magnitude) and analyze the groups seperately.
>
> You make a pointer array for each star, 10k pointers where each pointer
> points to a strucutre which holds the time and intensity
> for when it is in view.
>
> Cheers,
> bob
Hello Bob,
Thank you for your suggestion.
The cadence of this particular instrument is 40 minutes. And since i
am looking for transiting planets, this high cadence is very essential
to me.
The intensity array i am using contains flux for 3 different apertures
and hence the larger size.
As you suggested, catagorising it by quadrants was one of my ideas and
the other is to build a database. But now i will learn how to use

pointers and store it.
Thank you so much.

To Vince Hardi:
Thank you so much. Didnt think of it. Will try that.

regards,
vino
