
Subject: Re: Problem with variables in memory
Posted by [David Fanning](#) on Fri, 20 Apr 2012 18:22:54 GMT
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Esquerdo writes:

> I have a problem with variables in memory (I guess)... sorry, it's a
> beginner question.
>
> I'm using the "envi_get_slice" to extract slice profiles from a
> hyperspectral image with 270 bands.
>
> For exemple, in order to get the spectral slice of the 10th line and
> the 5th column I use:
>
> spectral_profile = envi_get_slice(fid=fid, pos=indgen(273), line=10,
> xe=5, xs=5)
>
> Although it takes some time (there are 270 bands!), it works fine.
> However, if I run again the code without changing the x and y (line
> and column) the extraction is very very quick!
>
> I tried to use ".reset_session" before running the second time, but it
> doesn't work. As I am studying the speed of this extraction process I
> need to measure the real time.
>
> Does anyone has any tips to reset variables without leaving IDL?

I am not absolutely sure about this, but I doubt this
is a memory issue. I **think** what is happening is that
ENVI stores its data in a "convenient" form for what you
want to do with it.

When you tell it you want to get a pixel value through a lot
of bands, it thinks "Oh oh, I got that wrong!" and reorganizes
its data (part of why this is taking so long, I think) so that
the **next** time you ask for this, the data is organized in a way
that make this process very fast.

You might find that now asking ENVI to display a "band" of the image
might be slow while it reorganizes to that particular thing.

Don't know. I'm no ENVI expert. :-)

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thui. ("Perhaps thou speakest truth.")
