Subject: Re: Multi-band sampling strategy
Posted by penteado on Wed, 18 Aug 2010 18:09:16 GMT
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On Aug 18, 2:26 pm, JessW <jess.wal...@gmail.com> wrote:
> Hi Max,
>
> Thanks for responding, and sorry about the fuzzy description of what
> I'm doing. Let me try to clarify.
>
> I am tracking the reflectance change of particular pixels across a
> time-series of Landsat data. So for my current stack of 8 Landsat
> scenes spanning April - October, the program returns 8 reflectance
> values for a given pixel address x,y. ENVI_GET_SLICE seemed ideal for
> this task because it can sample a single pixel location through a
> number of bands; however, as I mentioned, it is very slow when it
> loops over a large number of pixels to sample.
>
> ENVI_GET_DATA appears to work on only one band, so it doesn't seem
> quite as suitable for what I'm trying to do. I'll have to investigate
> the use of ENVI_CREATE_ROI; thanks for that suggestion.
>
> Jess

If your image is not too large to fit in memory, it seems that it might be better to just get the whole image as a 3D array, once, then take out the subset you want directly, just with indexing. If the image is too large, but the section you want fits into a small rectangle, you could retrieve just that region, defined by the max and min of your indexes, as a 3D array, then pick the points inside it.