
Subject: Re: trying to export pixel data from .dat files, based on coordinate loc
Posted by [Jeremy Bailin](#) on Sat, 10 Jul 2010 04:05:01 GMT

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On Jul 9, 12:53 pm, Snow53 <jennifer_wa...@hotmail.com> wrote:

```
> Hi, I'm new to IDL so this might sound very easy to some. Sorry!  
> I have 200+ .dat files in one folder, and one associated .hdr file  
> that will work for all of them.  
> I would like to loop through all the files and extract pixel value  
> information based on an input coordinate location (lat, long) for each  
> file, and then export all this information into a .txt file or  
> similar.  
>  
> I've been trying to follow other posts that have done similar, but I  
> seem to be writing this out wrong as my code isn't compiling correctly  
> (I seem to have problems on lines 9 & 14, see below). I don't know  
> enough about IDL rules to know the correct way to do this.  
>  
> If anyone could advise, I'd be so grateful! Cheers!  
>  
> Name: extractdata.pro  
> ;  
> ; Goal: Extract pixel data based on input coordinate location for each  
> file (.dat)  
> ; within a specified folder location. Export this data to a .txt file.  
>  
> pro extractdata  
> ;define path  
> filepath='X:\MERRA\HDF_Output_Lena\  
> ;open envi files within given folder  
> file_array=file_search[filepath, '*.dat', count['*.dat']= num_file]  
> for i=0, num_file-1 do begin  
>  
> file=file_array[i]  
> print, num_file  
>  
> ;read ENVI binary file  
> read_ENVI_image (file, headerfile= filepath, '*.hdr')  
> ;extract pixel information based on lat long coordinates  
> b=ENVI_CONVERT_FILE_COORDINATES [106.002, 83.0]  
> v=b  
> print, v  
>  
> ;open text file to write data to  
> OPENU, U, 'pixel_value.txt', /get_lun, /append  
> ;write data  
> printf, U, v  
> ;close LUN
```

```
> close, U
>
> endfor
>
> end
```

I think you're mixing up parentheses () and square brackets []. Use the former for function calls and mathematical precedence, and the latter for subscripting arrays.

(well, you can actually use parentheses to subscript arrays too, but it's generally a better idea to use square brackets. but you definitely can't use square brackets to call functions, as you're doing)

-Jeremy.
