
Subject: Re: ENVI header files in IDL

Posted by [raghuram](#) on Tue, 11 Mar 2008 02:30:59 GMT

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On Feb 27, 10:36 am, Jean H <jghas...@DELTHIS.ucalgary.ANDTHIS.ca> wrote:

> Raghu wrote:

>> Hi,

>

>> In IDL, i'm using filesearch function to read through files of certain
>> types.

>> Since an envi file has no specific extension, i'm not able to figure
>> out how to sort out the files.

>> Here's an example:

>

>> Say i have 2 images in ENVI format. It would look like IMAGE1,
>> IMAGE1.hdr, IMAGE2, IMAGE2.hdr.

>> As you can see, its only the header file which has the extension. When
>> i use the filesearch(image*), i am not
>> able to ignore the header files. These header files are not to be
>> processed.

>

>> Any ideas of how to choose only the images and not the header files,
>> as in this case ?

>> I guess i could convert the files to IMG so that they have an
>> extension, but there must be an easier way.

>

>> Thanks,

>

>> Raghu

>

> Hi,

> you can do a filesearch on the headers only

> filesToOpen = filesearch('image*.hdr') --> all that start with 'image'
> and ends with '.hdr')

> then remove the last 4 characters from the strings. Test if the file
> exists. If yes, open it. If not, try to add the common extensions (.dat,
> then .img etc). Of course, sort the order of the extensions (nothing,
> .dat etc) so that most images to process have the first extension (or
> lack of extension).

>

> here is a slightly different code that I use. The user select a file. If
> there is no extension in that file, it is open. Otherwise, the code
> looks for the file with the possible extensions.

>

> fileToOpen = dialog_pickFile(path = searchFolder, GET_PATH =
> searchFolder, /must_exist, title = title)

>

```

> ;If the user selected a .hdr, remove the extension and find the correct
> one.
> if (STRLOWCASE(strmid(fileToOpen,3, /REVERSE_OFFSET)) eq '.hdr') or
> (STRLOWCASE(strmid(fileToOpen,3, /REVERSE_OFFSET)) eq '.aux') then begin
>     fileToOpen= strmid(fileToOpen, 0,strlen(fileToOpen)-4)
>
>     extensionNotFound = 1B
>     currentExtension = 0
>     tmpFileToOpen = fileToOpen
>     commonExtensions = ['.dat','.img']
>     while extensionNotFound and currentExtension lt
> n_elements(commonExtensions) do begin
>         if FILE_TEST(tmpFileToOpen) eq 0 then begin
>             tmpFileToOpen = fileToOpen +
commonExtensions[currentExtension]
>             currentExtension +=1
>         endif else begin
>             extensionNotFound = 0B
>             fileToOpen = tmpFileToOpen
>         endelse
>     endwhile
>
> endif
>
> Jean- Hide quoted text -
>
> - Show quoted text -

```

Hi,

I got a very simple answer to my question from James Jones on the ITTVIS usergroup.

Here it is:

```
images=FILE_SEARCH('*[^\.{hdr}]', /QUOTE)
```

In this case, the file_search function ignores the hdr files and reads in only whats left.

Credit to James Jones for this.

Thanks,
Raghu
