
Subject: Re: ENVI header files in IDL

Posted by [Jean H.](#) on Wed, 27 Feb 2008 17:36:33 GMT

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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
