Subject: Re: extracting all but...
Posted by guillaume.drolet.1 on Sat, 19 Nov 2005 02:50:41 GMT
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kl_tah@hotmail.com a écrit :

```
> Hi All,
>
    I was wondering how I can extract all but a constant string from an
> array of strings?
> basically, I have an array of filenames with a particular directory
> prefixed to each of the filenames like so:
>
    files =
        ['/some/constant/directory/file1','/some/constant/directory/ file2',
        etc.]
> and would like to have just an array of the filenames without the
> prefixed directory name so that the result looks like:
>
    files = ['file1', 'file2', etc.]
> any ideas?
> Cheers,
> KL
```

Dear KL,

As a solution, I would use the 'STRSPLIT' function with the /EXTRACT keyword and '/' as a delimiter. It will return a string array containing 4 string: [some constant directory file2]. For example, inside a loop:

string_arr = strsplit(files[i],'/',/extract)

Then it' easy to get the last element of the array and put it in another array. I would repeat the operation for all your path+file.

Gui

Subject: Re: extracting all but...
Posted by R.Bauer on Sat, 19 Nov 2005 09:46:52 GMT
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```
kl tah@hotmail.com wrote:
> Hi All,
>
> I was wondering how I can extract all but a constant string from an
> array of strings?
> basically, I have an array of filenames with a particular directory
  prefixed to each of the filenames like so:
> files =
> ['/some/constant/directory/file1','/some/constant/directory/ file2',
> etc.1
>
> and would like to have just an array of the filenames without the
  prefixed directory name so that the result looks like:
>
 files = ['file1', 'file2', etc.]
>
>
 any ideas?
> Cheers,
> KL
You could use our file_path_name_ext routine from our library
http://www.fz-juelich.de/icg/icg-i/idl_icglib/idl_source/idl
html/dbase/file path name ext dbase.pro.html
more routines are described here:
http://www.fz-juelich.de/icg/icg-i/idl icglib/idl lib intro. html
idl has in idl6.0 introduced two routines FILE_BASENAME and FILE_DIRNAME.
There is no builtin routine to separate the extension - unfortunately.
file_path_name_ext returns a structure of path,name,ext input could be a
scalar or an array
cheers
Reimar
```

Subject: Re: extracting all but...
Posted by William Daffer on Sat, 19 Nov 2005 15:59:32 GMT
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kl_tah@hotmail.com writes:

```
> Hi All,
> I was wondering how I can extract all but a constant string from an
> array of strings?
> basically, I have an array of filenames with a particular directory
> prefixed to each of the filenames like so:
>
> files =
> ['/some/constant/directory/file1','/some/constant/directory/ file2',
>
> and would like to have just an array of the filenames without the
  prefixed directory name so that the result looks like:
>
 files = ['file1', 'file2', etc.]
>
> any ideas?
 You didn't tell which version of IDL you're using, so I'm going to
 assume it's a fairly recent version.
 If it's just a matter of removing the path, use File_Basename()
 which, like the unix utility 'basename', returns the last component
 of a path, i.e. the file name itself.
 file_basename('/some/constant/directory/file1') == 'file1.'
 You don't have to loop over the filenames, just do the whole vector at once.
 the part you want=file basename(files)
 If the constant part of path isn't the entire path and you know its
 value, you can use STREGEX()
 parts = stregex(your_files,'/the/constant/part/(.*)$', $
            /extract,/subexp)
 the_parts_you_want=parts[1,*]
 You might want to 'reform()' that, to make the first dimension go
 away.
 If the part isn't constant, you're on your own. ;-)
whd
PAINTING, n. The art of protecting flat surfaces from the weather and
```

exposing them to the critic.

Formerly, painting and sculpture were combined in the same work: the ancients painted their statues. The only present alliance between the two arts is that the modern painter chisels his patrons.

-- Ambrose Bierce: _The Devil's Dictionary_

Subject: Re: extracting all but...
Posted by David Fanning on Sat, 19 Nov 2005 16:29:42 GMT
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Reimar Bauer writes:

- > idl has in idl6.0 introduced two routines FILE BASENAME and FILE DIRNAME.
- > There is no builtin routine to separate the extension unfortunately.

Well, I'll offer up FSC_BASE_FILENAME, which can give you the directory, the filename, and the extension all in one go:

You can find it here:

http://www.dfanning.com/programs/fsc_base_filename.pro

Cheers.

David

--

David Fanning, Ph.D.

Fanning Software Consulting, Inc.

Coyote's Guide to IDL Programming: http://www.dfanning.com/

Subject: Re: extracting all but...
Posted by R.Bauer on Sat, 19 Nov 2005 23:12:22 GMT

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David Fanning wrote:

```
> Reimar Bauer writes:
>> idl has in idl6.0 introduced two routines FILE_BASENAME and FILE_DIRNAME.
>> There is no builtin routine to separate the extension - unfortunately.
> Well, I'll offer up FSC_BASE_FILENAME, which can give you the
  directory, the filename, and the extension all in one go:
 : EXAMPLE:
>
     IDL> thePath = "C:\rsi\idl7.8\lib\jester.pro"
     IDL> Print, FSC_Base_Filename(thePath, Directory=dir,Extension=ext)
>
        iester
>
     IDL> Print, dir
>
        C:\rsi\idl7.8\lib\
    IDL> Print, ext
        pro
>
>
  You can find it here:
    http://www.dfanning.com/programs/fsc base filename.pro
>
> Cheers,
> David
David,
your routine does not get the extension on this example in opposite of Theos
file path name ext which works on windows and unix.
FSC_Base_Filename drops the dot :-(
IDL> thePath = '../.profile'
IDL> Print, FSC_Base_Filename(thePath, Directory=dir,Extension=ext)
% Compiled module: FSC_BASE_FILENAME.
% Compiled module: PATH SEP.
% Compiled module: STRSPLIT.
profile
IDL> fpe=file path name ext(thePath)
% Compiled module: FILE_PATH_NAME_EXT.
% Compiled module: REPLACE_STRING.
IDL> print,fpe.path
IDL> print,fpe.name
IDL> print,fpe.ext
```

.profile			
cheers Reimar			