
Subject: Re: find_subtree.pro
Posted by [R. Bauer](#) on Fri, 05 Jun 1998 07:00:00 GMT
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Kristian Kjaer wrote:

> Hi,
>
> I am looking for piece of code - similar to findfile() - which will
> return the fully-qualified paths to all subdirectories of the default
> directory, or return the fully-qualified paths to, say, all files *.dat
> in all subdirectories of the default directory.
>
> (I use IDL 5 on WinNT.)
>
> Any hints appreciated!
>
> ----- Msg. from: -----
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Dear Kristian

here is some piece of code, which you can extend yourself.
You need in addition stress and strep from the Ray Sterner lib.

```
;
;
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; sold and this copyright notice is reproduced on each copy made.
This
; routine is provided as is without any express or implied
warranties
; whatsoever.
;+
; NAME:
; get_dir
;
; PURPOSE:
; This function finds all subdirectories of a given path
```

```

;
; CATEGORY:
; DATAFILES/FILE
;
; CALLING SEQUENCE:
; Result=get_dir(path)
;
; INPUTS:
;   path: The start path where get_dir should look for subdirectories
;
; KEYWORD PARAMETERS:
;   all: in addition to the normal subdirectories the entries . and
; ..
;   sort: sorts the output
;   help: gives a short description
;
; OUTPUTS:
;   The result of this function is a string array of subdirectories
;
; EXAMPLE:
; Result=get_dir('/usr/local')
; or
; Result=get_dir('windows')
;
; MODIFICATION HISTORY:
;   Written by:   R.Bauer (ICG-1), May 1997
;-

function get_dir,help=help,inpath,sort=sort,all=all
;debug,'1.1 RB 1997-Dec-22'

  if keyword_set(help) then begin
    print,"print,get_dir('/)"
    print,'===== '
    return,"
  endif

  if n_elements(inpath) gt 0 then begin
    cd,current=oldpath      ; alten path saven
    cd,inpath
  endif

  if strupcase(!version.os) eq 'WIN32' or strupcase(!version.os) eq 'WIN'
then delim = '*.*' ELSE delim='-Fd *'
  alle_ein=findfile(delim)

```

```

if n_elements(inpath) gt 0 then cd,oldpath ; alten path restoren
if strupcase(!version.os) eq 'AIX' THEN delim = '/' ELSE delim = '\'
if strupcase(!version.os) eq 'AIX' then alle_ein =
['./','../',alle_ein]

```

```

subs=where(strpos(alle_ein,delim) ge 0,count)

```

```

if count gt 0 then begin
  nur_subdirs=alle_ein(subs)

```

```

  n_Anz=n_elements(nur_subdirs)-1

```

```

  for i=0,n_anz do begin
    nur_subdirs(i)=stress(nur_subdirs(i),'D',0,delim)
  endfor

```

```

  if keyword_set(sort) then $
    nur_subdirs=nur_subdirs(sort(nur_subdirs))

```

```

  if keyword_set(all) then return, nur_subdirs

```

```

  if n_anz ge 2 then nur_subdirs=nur_subdirs(2:n_anz) else
nur_subdirs=""

```

```

  return,nur_subdirs
endif

```

```

if count eq -1 then return,"

```

```

END

```

```

===== CUT HERE =====

```

```

FUNCTION files_in_dirs ,dir=dir,pattern=pattern

```

```

IF n_elements(dir) EQ 0 THEN dir = '.'
IF n_elements(pattern) EQ 0 THEN pattern = '*.*'
dirs = get_dir(dir)

```

```

n_dirs = n_elements(dirs)
FOR i=0,n_dirs-1 DO BEGIN
  files = findfile(dir+dirs(i)+'/'+pattern)
  IF n_elements(result) EQ 0 THEN result = files ELSE result =
[result,files]

```

ENDFOR

return,result

END

==== CUT HERE =====

PRO ex_subtree

print,files_in_dirs(dir='../',pattern='*.pro')

END

--

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