
Subject: find_subtree.pro

Posted by [Kristian Kjaer](#) on Tue, 02 Jun 1998 07:00:00 GMT

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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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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,

>

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> return the fully-qualified paths to all subdirectories of the default
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> ----- 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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is not
; 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 save
    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 restore
  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

--

R.Bauer

Institut fuer Stratosphaerische Chemie (ICG-1)

Subject: Re: find_subtree.pro
Posted by [Robert Moss](#) on Fri, 12 Jun 1998 07:00:00 GMT
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R. Bauer wrote:

>

> You need in addition stress and strep from the Ray Sterner lib.

>

Man, I have enough stress in my life already...

sorry, couldn't resist that one...

--

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