Subject: Re: Curious FindFile behavior Posted by Martin Schultz on Fri, 27 Nov 1998 08:00:00 GMT View Forum Message <> Reply to Message

Barry Lesht wrote:

- > I'm running IDL5.1 on an SGI (IRIX6.2). I'm using FindFile to create
- > an array of data filenames that I can pass to some processing code.
- > There are (as it turns out) 515 files in the directory I'm searching.
- > The filenames are all of the form xxxxxxxxxxxxxyymmdd.hhmmss.cdf. I
- > get the following from FindFile-

- > IDL> files=FindFile('*.*', COUNT=nf)
- > IDL> PRINT, nf
- 0 >
- > [...]

- > I don't see why cases 2 and (especially) 3 didn't result in nf=515.
- > Can anyone explain this? Thanks.

- > Barry Lesht
- > bmlesht@anl.gov

Yup,

this seems to be an SGI related problem. I have never heard of other machines with this behaviour. I had once contacted RSI about a similar problem, and they replied it may have to do with the shell expansion (in my case I was getting into trouble using '~' identifiers even in small directories). It would probbaly help if you could forward this bug report to RSI -- maybe they will fix it at some point...

Please find below a third variant of a routine that has been designed to overcome the problem you posted,

Regards.

Martin.

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```
; $Id: mfindfile.pro,v 1.1 1998/10/09 19:53:32 mgs Exp $
;+
NAME:
     MFINDFILE
 PURPOSE:
     find all the files that match a given specification.
     On our system, the IDL findfile function does not
     work correctly!!
 CATEGORY:
     System routines
 CALLING SEQUENCE:
     listing = MFINDFILE(filemask)
 INPUTS:
     FILEMASK -> a path and filename specification to look
 KEYWORD PARAMETERS:
     none
 OUTPUTS:
     A string list containing all the files that match the
     specification.
 SUBROUTINES:
 REQUIREMENTS:
 NOTES:
     Spawns a unix Is -1 command!
 EXAMPLE:
     list = mfindfile('~mgs/terra/chem1d/code/*.f')
     ; returns all fortran files in Martin's chem1d directory.
 MODIFICATION HISTORY:
     mgs, 14 Sep 1998: VERSION 1.00
```

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; kept with any copy of this software. If this software shall
; be used commercially or sold as part of a larger package,
 please contact the author to arrange payment.
 Bugs and comments should be directed to mgs@io.harvard.edu
; with subject "IDL routine mfindfile"
function mfindfile, mask
  if (!version.os_family eq 'unix') then begin
  ; make my own findfile
    path = extract_path(mask,filename=fname)
    path = expand path(path)
    newpath = path+fname
 print, 'fname:', fname, 'path:', path, 'newpath:', newpath
    command = 'ls -1'
    cstr = command+' '+newpath
    spawn,cstr,listing
    return, listing
  endif else begin
                     ; other OS - use IDL's original
    return, findfile (mask)
  endelse
end
File Attachments
1) mfindfile.pro, downloaded 90 times
```