Subject: Re: IDL V4 and Windows 95

Posted by Mirko Vukovic on Mon, 01 Apr 1996 08:00:00 GMT

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## Mark Hadfield wrote:

>

> Joseph M Zawodny wrote:

>

- >> I just upgraded from Windows 3.1 to Win 95 and I am having great
- >> difficulty getting IDL to find some files/proceedures. It is pretty
- >> apparent that IDL cannot handle long file names (at least on my system).
- >> Has anyone else run into this and what can be done about it (short of
- >> renaming all of programs to fit the 8.3 format). I notice that the DOS
- >> names (8.3 names) now have the foobar~1.pro naming typical of long file
- >> names under win 95.
- > etc etc, I had to delete stuff ...

Yes, can you please post that (concat4dos) utility. Can you please be more specific on adding a space to file names. Where? In the idl call or to the file name itself?

Also note that printing does not work under windows 95. This time it is a bug. The way I deal with it as for dumping graphs on the printer is to copy the window to the clipboard (alt-printscreen) then go into paintbrush, paste there and print from there.

How do people like the imbedded editor? I usually kill those windows as they pop and do most of the editing via emacs. The idl editor, I use for debugging.

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Mirko Vukovic, Ph.D. mirko.vukovic@grc.varian.com Varian Research Center Phone: (415) 424-4969 3075 Hansen Way, M/S K-109 Fax: (415) 424-6988

Palo Alto, CA 94304-1025

Subject: Re: IDL V4 and Windows 95

Posted by Mark Hadfield on Mon, 01 Apr 1996 08:00:00 GMT

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## Joseph M Zawodny wrote:

- > I just upgraded from Windows 3.1 to Win 95 and I am having great
- > difficulty getting IDL to find some files/proceedures. It is pretty
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- > Has anyone else run into this and what can be done about it (short of
- > renaming all of programs to fit the 8.3 format). I notice that the DOS
- > names (8.3 names) now have the foobar~1.pro naming typical of long file
- > names under win 95.

You're right: IDL for Windows does not handle long file names. This is a "feature" mentioned in the documentation, not a peculiarity of your system. So all .pro file names still need to be truncated to 8.3 characters. (I adapted Bill Thompson's CONCAT4DOS routine for Windows NT to do this--I can send or post a copy if you want.)

On Windows NT I have found that files with names longer than 8.3 CAN be opened provided a space is appended to the file name. Don't know why but it seems to work. Unusual characters in the file names, including spaces, are still verboten.

- > A second question has to do with 16bit color. I seem to have no
- > control whatsoever over the colors used in plotting. This problem
- > remains when I switch back to 8 bit (265) colors. Again, am I missing
- > something here.

Can't really help here. I tried 16-bit colour when I first got a 16-bit capable video card and encountered strange behaviour. Can't remember exactly what, because I reverted to 8-bit and everything works as it did with Win 3.11.

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	neers	

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Mark Hadfield

NIWA (Taihoro Nukurangi)

PO Box 14-901

m.hadfield@niwa.cri.nz Wellington, New Zealand

Subject: Re: IDL V4 and Windows 95

Posted by Mark Hadfield on Thu, 04 Apr 1996 08:00:00 GMT

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Mirko Vukovic wrote:

> Yes, can you please post that (concat4dos) utility.

CONCAT4DOS is included below. It is a modification of the routine of the same name in the CDS library (http://sohowww.nascom.nasa.gov/solarsoft/gen/idl/) and it calls FDECOMP from the CDS library, plus OS\_FAMILY, which is in the IDL Astronomy Library (http://idlastro.gsfc.nasa.gov/homepage.html) but may also be in the CDS library.

- > Can you please be more specific
- > on adding a space to file names. Where? In the idl call or to the file name
- > itself?

Either, eg, create a file called alongname.txt and try to open it:

IDL> name='c:\temp\alongname.txt'

IDL> openr,1,name

% OPENR: Error opening file: c:\temp\alongnam.txt.

No such file or directory

% Execution halted at: \$MAIN\$

That doesn't work but this does:

IDL> openr,1,name+' ' IDL> text=" & readf,1,text & print,text some text IDL> close,1

However use this workaround at your own risk. I've had strange results from FINDFILE when used with long file names--seems to corrupt the file name.

- > How do people like the imbedded editor? I usually kill those windows as they pop and
- > do most of the editing via emacs. The idl editor, I use for debugging.

Me too. I stopped using the IDL editor when, in an earlier version, it used to erase the files it was editing!

Mark Hadfield

NIWA (Taihoro Nukurangi)

PO Box 14-901

m.hadfield@niwa.cri.nz

Wellington, New Zealand

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## PRO CONCAT4DOS. SUBDIRECTORIES=SUBDIRECTORIES

Project : SOHO - CDS

Name

**CONCAT4DOS** 

Purpose

Concatenates IDL procedure files for copying to DOS machine.

: Explanation :

Concatenates IDL procedure files together into a form suitable for copying to a DOS machine.

All the .PRO files in the current directory are copied into a special "dos" subdirectory, with the following changes made:

- 1. All filenames are truncated to eight characters.
- 2. All procedure files with names beginning with the same first eight characters are concatenated together into a

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single file.
 Use
CD, directory; (go to desired directory)
 CONCAT4DOS :or CONCAT4DOS, /SUBDIRECTORIES
: Inputs
; None.
; Opt. Inputs:
; None.
: Outputs
: None.
: Opt. Outputs:
; None.
Keywords
 SUBDIRECTORIES = If set, then subdirectories are also recursively
  processed. This does not work under Windows.
 Calls
FDECOMP
 Common
: None.
: Restrictions:
: None.
: Side effects:
; A "dos" subdirectory is created. A temporary command file is created
  and then destroyed. On VMS machines, the file is called "CONCAT4DOS.COM",
  on UNIX machines it is called "concat4dos.sh" and on MS-Windows machines
 it is called "concat4.bat".
 Category
Utilities, Operating system.
Prev. Hist.:
William Thompson, August 1992.
Written
William Thompson, GSFC, August 1992.
Modified
 Version 1, William Thompson, GSFC, 9 July 1993.
 Incorporated into CDS library.
 Modified so that a temporary file is created on UNIX machines
 as well, to speed up.
 Version 2, William Thompson, GSFC, 18 April 1994.
 Added SUBDIRECTORIES switch, and copying of documentation (.txt
 or .tex) files.
  Mark Hadfield (m.hadfield@niwa.cri.nz), December 1995
    Added Windows code..
ON_ERROR,2
 If the SUBDIRECTORIES switch was set, then first process the current
```

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; directory. Make sure that a "dos" subdirectory is created.
IF KEYWORD_SET(SUBDIRECTORIES) THEN BEGIN
 CONCAT4DOS
 IF os family() EQ 'vms' THEN BEGIN
 DOSDIRFILE = FINDFILE('DOS.DIR',COUNT=N_FOUND)
 IF N FOUND EQ 0 THEN SPAWN, $
  'CREATE/DIRECTORY [.DOS]'
 ENDIF ELSE IF os family() EQ 'Windows' THEN BEGIN
   message, Sorry, CONCAT4DOS does not process subdirectories under
Windows.'
 END ELSE BEGIN
 DOSDIRFILE = FINDFILE('dos',COUNT=N_FOUND)
 IF N_FOUND EQ 0 THEN SPAWN, 'mkdir dos'
 ENDELSE
 Next find all the subdirectories under the current directory.
 IF os family() EQ 'vms' THEN BEGIN
 DIR FILES = FINDFILE('*.dir')
 BREAK FILE, DIR FILES, D1, D2, DIRS, D3, D4, D5
 ENDIF ELSE IF OS FAMILY() eq 'Windows' THEN BEGIN & yield
 DIR FILES = FINDFILE('*')
 ISDIR = WHERE(STRMID(DIR_FILES,0,1) NE '.' AND
STRPOS(DIR_FILES,'\') GT -1,COUNT)
 IF COUNT GT 1 THEN DIRS = DIR FILES(ISDIR) ELSE RETURN
 ENDIF ELSE SPAWN, 'find * -type d -print -prune', DIRS
 Process each subdirectory, and move its "dos" file under the one for the
 current directory.
 I omitted this operation under MS-Windows because I am not sure what it's
 supposed to do.
 FOR I_DIR = 0,N_ELEMENTS(DIRS)-1 DO BEGIN
 DIR = DIRS(I\_DIR)
 DIR8 = STRMID(DIR,0,8)
 IF (DIR NE ") AND (DIR NE 'dos') AND (DIR NE 'dos\') THEN
BEGIN
  CD,DIR
  CONCAT4DOS, /SUBDIRECTORIES
  IF os family() EQ 'vms' THEN BEGIN
  SPAWN, 'RENAME DOS.DIR [-.DOS]' + $
   DIR8 + '.DIR'
  ENDIF ELSE BEGIN
  SPAWN, 'mv dos ../dos/' + DIR8
  ENDELSE
  CD.'..'
 ENDIF
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ENDFOR
RETURN
ENDIF
Start of the section that processes the current directory. First make sure
there are procedure files in the current directory.
FILES = FINDFILE('*.pro',COUNT=N_FILES)
IF N FILES EQ 0 THEN BEGIN
MESSAGE, 'No procedure files found', /INFORM
RETURN
ENDIF
Next, look for an existing "dos" directory. Depending on whether the OS is
 VMS or Unix, open up a command file to store all subsequent commands. All
the commands will then be executed at the end with a single spawn.
IF os family() EQ 'vms' THEN BEGIN
OPENW, UNIT, 'CONCAT4DOS. COM', /GET LUN
PRINTF, UNIT, '$ SET VERIFY'
DOSDIR = 'DOS.DIR'
ENDIF ELSE IF OS FAMILY() eq 'Windows' THEN BEGIN
OPENW, UNIT, 'concat4d.bat', /GET_LUN
PRINTF, UNIT, 'echo on'
DOSDIR = 'dos'
ENDIF ELSE BEGIN
OPENW,UNIT,'concat4dos.sh',/GET_LUN
PRINTF, UNIT, 'set echo'
DOSDIR = 'dos'
ENDELSE
DOSDIRFILE = FINDFILE(DOSDIR, COUNT=N FOUND)
 If an existing directory was found, then warn the user that all the ".pro"
 files in that subdirectory will be deleted, and ask if the user wants to
continue. If yes, then delete the files.
IF N FOUND NE 0 THEN BEGIN
PRINT, 'DOS directory already found'
PRINT, 'All .PRO files in the DOS directory will be deleted.'
; ASK, 'Continue? ', ANSWER, 'YN'
ANSWER = 'Y'
IF ANSWER EQ 'Y' THEN BEGIN
 IF os_family() EQ 'vms' THEN BEGIN
 PRINTF, UNIT, '$ DELETE/NOLOG/NOCONFIRM ' + $
  '[.DOS]*.PRO;*'
 ENDIF ELSE IF OS FAMILY() eq 'Windows' THEN BEGIN
 PRINTF, UNIT, 'del dos\*.pro'
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END ELSE BEGIN
 PRINTF, UNIT, 'rm dos/*.pro'
 ENDELSE
ENDIF ELSE GOTO, FINISH
 Otherwise, create the subdirectory.
END ELSE BEGIN
IF os family() EQ 'vms' THEN BEGIN
 PRINTF, UNIT, '$ CREATE/DIRECTORY [.DOS]'
END ELSE BEGIN
 PRINTF.UNIT.'mkdir dos'
ENDELSE
ENDELSE
 For each file, determine the eight character equivalent, and copy all files
 beginning with those eight characters into a single file.
LAST = "
FOR I=0,N FILES-1 DO BEGIN
FDECOMP, FILES (I), DISK, DIR, NAME, EXT, VER
NAME8 = STRMID(NAME, 0, 8)
IF NAME8 NE LAST THEN BEGIN
 IF STRLEN(NAME8) EQ 8 THEN NAME9 = NAME8 + '*' ELSE $
 NAME9 = NAME8
 IF os family() EQ 'vms' THEN BEGIN
 PRINTF, UNIT, '$ COPY ' + NAME9 + $
  '.PRO [.DOS]' + NAME8 + '.PRO'
 ENDIF ELSE IF OS FAMILY() eq 'Windows' THEN BEGIN
 PRINTF,UNIT,'type ' + NAME9 + '.pro > dos\' + $
  NAME8 + '.pro'
 END ELSE BEGIN
 PRINTF,UNIT,'cat ' + NAME9 + '.pro > dos/' + $
  NAME8 + '.pro'
 ENDELSE
ENDIF
LAST = NAME8
ENDFOR
If there are any documentation files (.txt or .tex), then copy them as well.
FILES = FINDFILE('*.t*', COUNT=N_FILES)
IF N FILES NE 0 THEN FOR I=0,N FILES-1 DO BEGIN
FDECOMP, FILES (I), DISK, DIR, NAME, EXT, VER
NAME8 = STRMID(NAME, 0, 8)
EXT3 = STRMID(EXT,0,3)
IF os family() EQ 'vms' THEN BEGIN
 PRINTF, UNIT, '$ COPY ' + FILES(I) + ' [.DOS]' + $
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NAME8 + '.' + EXT3
 ENDIF ELSE IF OS_FAMILY() eq 'Windows' THEN BEGIN
 PRINTF, UNIT, 'type ' + FILES(I) + ' > dos/' + $
  NAME8 + '.' + EXT3
 END ELSE BEGIN
 PRINTF,UNIT,'cat ' + FILES(I) + ' > dos/' + $
  NAME8 + '.' + EXT3
 ENDELSE
ENDFOR
 Tell the command file to delete itself after processing, and execute it.
FINISH:
IF os_family() EQ 'vms' THEN BEGIN
 PRINTF, UNIT, '$ DELETE/NOLOG/NOCONFIRM CONCAT4DOS.COM;*'
 FREE_LUN,UNIT
 SPAWN,'@CONCAT4DOS.COM'
ENDIF ELSE IF OS_FAMILY() eq 'Windows' THEN BEGIN
 FREE LUN, UNIT
 SPAWN, 'concat4d.bat'
  SPAWN,'del concat4d.bat'
END ELSE BEGIN
 PRINTF, UNIT, 'rm concat4dos.sh'
 FREE_LUN,UNIT
 SPAWN, 'source concat4dos.sh'
ENDELSE
RETURN
END
```