
Subject: Re: Copying files in IDL
Posted by [muswick](#) on Mon, 15 Jul 2002 04:49:23 GMT
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Reimar Bauer <r.bauer@fz-juelich.de> wrote in message
news:<3D1180BA.1CB14940@fz-juelich.de>...

> Marc Schellens wrote:

>>

>> Reimar Bauer wrote:

>>>

>>> Sean Raffuse wrote:

>>>>

>>>> Hello folks. I would like to make a copy of an hdf file, changing only to
>>>> filename and the content of one of datasets in the hdf. I have no problem
>>>> putting in the new content, but this overwrites the old file, which I need
>>>> to preserve. How do I copy and/or rename the file in IDL? I don't want to
>>>> have to rebuild the entire hdf file and it's dozens of attributes. Just a
>>>> near exact copy with a different name.

>>>>

>>>> Thanks in advance,

>>>>

>>>> Sean

>>>

>>> Dear Sean,

>>>

>>> what's with this primitive way.

>>>

>>> spawn,'cp file.hdf new_file.hdf'

>>>

>>> and then operations on then new file.

>>>

>>> regards

>>

>> The disadvantage of this solution is that it's not portable.

>> If the filesize is not to large, you can do something like:

>>

>> openr,1,'file.hdf'

>> fs=fstat(1)

>> b=bytarr(fs.size)

>> readu,1,b

>> close,1

>> openw,1,'new_file.hdf'

>> writeu,1,b

>> close,1

>>

>> cheers,

>> marc

>

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;-----Start CopyFile.pro

; CopyFile.pro v1.1 2002/06/14
; Copyright © 2000, 2001, 2002 Zalen LLC
;
; Purpose: A procedure to copy files of any size.
;
; Author: Gary Muswick, September 21, 2000
;

;+
; INPUTS:
; sScrFile : The full filename which contains the file to be
copied.
; sDstFile : The full filename which contains the destination
file.

; KEYWORD PARAMETERS:
; None.

; OUTPUTS:
; None.

; RESTRICTIONS:
; Only scalar strings are allowed for input.

; EXAMPLE:
; CopyFile,'C:\WINNT\Temp\test.txt', 'D:\copy of test.txt'

; MODIFICATION HISTORY:
; June 14, 2002 - Gary Muswick
; Fixed problem with buffer size when multiple reads are
; required. Added NOZERO keyword to BYTARR.

FUNCTION ZLLCErrorHandler, IErrorStatus

IF IErrorStatus EQ 0L THEN RETURN, 0
HELP, /TRACEBACK, OUTPUT = asTraceback
; Get rid of this routine from the traceback
IF N_ELEMENTS(asTraceback) GT 1 THEN asTraceback = asTraceback[1:~]
asRoutineInfo = STR_SEP(STRCOMPRESS(asTraceback[0]), ' ') ; Breakup
info
asError = asRoutineInfo[1] ; Current Routine is 2nd
item
asError = [asError,'Error index: ' + STRING(IErrorStatus)]

```

asError = [asError,'Error message: ' + !ERROR_STATE.MSG]
asError = [asError,'System Error: ' + !ERROR_STATE.SYS_MSG]
asError = [asError, asTraceback]
a = DIALOG_MESSAGE(asError)
RETURN, 1
END

```

PRO CopyFile, sSrcFile, sDstFile

```

CATCH, IErrorStatus
IF ZLLCErrorHandler(IErrorStatus) THEN RETURN
OPENR, iSlun, sSrcFile[0], /GET_LUN
OPENW, iDlun, sDstFile[0], /GET_LUN
mFS = FSTAT(iSlun)
ISizeToWrite = 1024L*1024L
IBytesWritten = 0L
bData = BYTARR(ISizeToWrite < mFS.size, /NOZERO)
WHILE IBytesWritten LT mFS.size DO BEGIN
    READU, iSlun, bData
    WRITEU, iDlun, bData
    IBytesWritten = IBytesWritten + N_ELEMENTS(bData)
    IF IBytesWritten LT mFS.size THEN BEGIN
        IF (mFS.size - IBytesWritten) LT ISizeToWrite THEN BEGIN
            bData = BYTARR(ISizeToWrite < (mFS.size - IBytesWritten),
/NOZERO)
            ENDIF
        ENDIF
    ENDWHILE
    FREE_LUN, iSlun ; Close and free the LUN
    FREE_LUN, iDlun ; Close and free the LUN
END

;-----End CopyFile.pro

```