Subject: cfitsio library
Posted by anand on Fri, 20 Mar 2015 08:32:27 GMT
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Hi,
i want to install the cfitsio library to read compressed fits files in IDL 8.4 running on Ubuntu 14.04
64-bit version. Two programs need this library: READ_SDO as well as READFITS (only for *.fits.fz
files for the latter program).  I have followed the instructions as given at this link:
http://heasarc.gsfc.nasa.gov/fitsio/fpack/

The fun part is that while READ_SDO runs as expected, I get an error saying
<funpack: command not found>.

(Does it have something do with the shell in which the command is running? Because, while
READ_SDO runs in tcsh, the READFITS error command is preceded by the name of the shell,
which is either 'sh' or 'bash')

thanking in advance,
Anand.

Subject: Re: cfitsio library
Posted by wlandsman on Fri, 20 Mar 2015 11:50:47 GMT
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Does the funpack command run at the command line (outside of IDL)?
READFITS() simply spawns to open a pipe to the funpack command:

spawn,'funpack -S ' + filename, unit=unit,/sh


On Friday, March 20, 2015 at 4:32:32 AM UTC-4, anand wrote:
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> thanking in advance,
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## Subject: Re: cfitsio library
Posted by anand on Sat, 21 Mar 2015 03:33:54 GMT
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No. I tried at the command prompt, but neither fpack nor funpack are recognised. After running 'make' and 'make install', I also explicitly ran 'make fpack' and 'make funpack'. The latter commands seem to run successfully too.

## Subject: Re: cfitsio library
Posted by suruchi on Sun, 10 Jul 2016 08:39:30 GMT
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I am trying to open HMI fits files using read_sdo.pro on a window 7 machine. following is the error:


IDL> f=file_search('*.fits')
IDL> read_sdo,f,index,data
 ----------------------------------------------------
| Uncompressing to> C:\Users\Home\AppData\Local\Temp |
 ----------------------------------------------------
| hmi.M_720s.20160108_000000_TAI.1.magnetogram.fits ->
C:\Users\Home\AppData\Local\Temp\HMI20160107_235808_6173.fit s |
 ----------------------------------------------------------- --------------------
% FILE_SIZE: File:  C:\Users\Home\AppData\Local\Temp\HMI20160107_235808_6173.fit s not found...
% Array dimensions must be greater than 0.
% Execution halted at: MREADFITS_SHM      63 E:\ssw\vobs\ontology\idl\jsoc\mreadfits_shm.pro

Please help!

## Subject: Re: cfitsio library
Posted by dcleuclidwl on Mon, 11 Jul 2016 15:17:39 GMT
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I am not familiar with the package you are using but it looks like its first step is to uncompress a file and write it to a temporary directory.     The program is then failing because it can't find the uncompressed file. First, does the temporary directory exist?

C:\Users\Home\AppData\Local\Temp

Is the file HMI20160107_235808_6173.fits being written to that directory?

Sometimes the problem is due to a space in the directory/file name.  --Wayne

On Sunday, July 10, 2016 at 4:39:34 AM UTC-4, suruchi wrote:
> I am trying to open HMI fits files using read_sdo.pro on a window 7 machine. following is the

error:
>
> IDL> f=file_search('*.fits')
> IDL> read_sdo,f,index,data
> ----------------------------------------------------
> | Uncompressing to> C:\Users\Home\AppData\Local\Temp |
> ----------------------------------------------------
> | hmi.M_720s.20160108_000000_TAI.1.magnetogram.fits ->
C:\Users\Home\AppData\Local\Temp\HMI20160107_235808_6173.fit s |
> ---------------------------------------------------------- -------------------
> % FILE_SIZE: File:  C:\Users\Home\AppData\Local\Temp\HMI20160107_235808_6173.fit s not
found...
> % Array dimensions must be greater than 0.
> % Execution halted at: MREADFITS_SHM      63
E:\ssw\vobs\ontology\idl\jsoc\mreadfits_shm.pro
>
> Please help!