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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.

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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:

> 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:  
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> <funpack: command not found>.  
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>  
> thanking in advance,  
> Anand.

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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.

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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!

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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!
```

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