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Subject: Re: NCDF\_IS\_NCDF

Posted by [khyde](#) on Fri, 22 Jan 2016 20:04:56 GMT

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On Friday, January 22, 2016 at 2:48:38 PM UTC-5, Mike Galloy wrote:

> On 1/22/16 12:26 PM, kimberly.hyde@noaa.gov wrote:

>> On Friday, January 22, 2016 at 2:20:25 PM UTC-5, kimber...@noaa.gov  
>> wrote:

>>> On Thursday, January 21, 2016 at 10:26:36 PM UTC-5, Michael Galloy  
>>> wrote:

>>>> On 1/21/16 1:21 PM, KH wrote:

>>>> > Hello,

>>>> >

>>>> > Is there a netcdf equivalent to HDF\_ISHDF? I am basically

>>>> > looking for a way to test if a file is a netcdf file before

>>>> > trying to open the file (and the having the program crash

>>>> > because it isn't actually a netcdf file).

>>>>

>>>> Yes, I would normally recommend just trying to open the file and

>>>> catching the error if it fails, but, as you noted, it actually

>>>> crashes IDL:

>>>>

>>>> IDL> id = ncdf\_open(filename) Assertion failed: (0), function

>>>> NC4\_open, file nc4file.c, line 2696. Abort trap: 6

>>>>

>>>> Are your files netCDF 4 files? You can use H5F\_IS\_HDF5 if you

>>>> don't want pre-4 netCDF files:

>>>>

>>>> IDL> help, h5f\_is\_hdf5(file\_which('ncgroup.nc')) <Expression>

>>>> LONG = 1 IDL> help,

>>>> h5f\_is\_hdf5(file\_which('sample.nc')) <Expression> LONG =

>>>> 0

>>>>

>>>>

>>>> Mike -- Michael Galloy [www.michaelgalloy.com](http://www.michaelgalloy.com) Modern IDL: A Guide

>>>> to IDL Programming (<http://modernidl.idldev.com>)

>>>

>>> These particular files are netcdf4 so I can use the H5f program,

>>> but not all of my files are netcdf4 so I was hoping to find a way

>>> to automatically test what type of files they are. Thanks for your

>>> assistance, Kim

>>

>>

>> In the end, I am mainly trying to quickly determine if the netcdf

>> files I downloaded are corrupt or incomplete. That way if they are

>> bad, I can remove them so that they don't crash during subsequent

>> processing. Currently I am opening the file and then using

>> NCDF\_INQUIRE to get the basic structure information, but if there is

```
>> an easier way to check the file, I am open for ideas.
>>
>> Kim
>>
>
> I have a routine, MG_NC_ISNCDF, in my library mglib (at
> github.com/mgalloy/mglib). You have to build the library to get the
> routine (and, of course, put the location of where the DLM is installed
> into your IDL DLM path). You will need the netCDF, HDF5, curl, libsz,
> and libz libraries installed. Change the paths to the proper locations,
> but something like the following should work for your system:
>
> mkdir build
> cd build
>
> cmake \
> -DCMAKE_INSTALL_PREFIX:PATH=~/.software/mglib \
> -DNETCDF_INCLUDE_DIR:PATH=/usr/local/include \
> -DNETCDF_LIBRARY:PATH=/usr/local/lib/libnetcdf.a \
> -DHDF5_LIBRARY:PATH=/usr/local/lib/libhdf5.a \
> -DHDF5_LA_LIBRARY:PATH=/usr/local/lib/libhdf5_hl.a \
> -DCURL_LIBRARY:PATH=/usr/lib/libcurl.dylib \
> -DSZ_LIBRARY:PATH=/usr/local/lib/libsz.a \
> -DZ_LIBRARY:PATH=/usr/lib/libz.dylib \
> ..
>
> Mike
> --
> Michael Galloy
> www.michaelgalloy.com
> Modern IDL: A Guide to IDL Programming (http://modernidl.idldev.com)
```

Hello Mike,

Is this a C program or IDL? It definitely isn't clear to me how to implement this. All I really know is basic IDL and the code in the program doesn't look familiar to me.

Kim

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