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Subject: Re: HDF\_SD\_GETACCESS: No content in variable, error

Posted by [aa8533](#) on Fri, 23 Jul 2010 08:11:01 GMT

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On Jul 22, 7:54 am, Dave Poreh <d.po...@gmail.com> wrote:

> On Jul 21, 9:38 am, David Fanning <n...@dfanning.com> wrote:

>

>

>

>

>

>> aa8533 writes:

>>> Hi - I'm trying to make a program which automatically runs through  
>>> 100s of images (MODIS Fire data) and extracts data at a particular  
>>> point. The program works fine where there is data to extract (in the  
>>> case below, when there is data in FP\_Sample) but halts for an image  
>>> where there is none with message "Array dimensions must be greater  
>>> than 0".

>

>>> Extract of code is:

>

>>> sd=hdf\_sd\_start(fileName)  
>>> index=hdf\_sd\_nametoindex(sd,'FP\_sample')  
>>> sds=hdf\_sd\_select(sd,index)  
>>> hdf\_sd\_getdata,sds,sample <----- Halts with message  
>>> here

>

>>> Is there a way to test the size of the variable (in this case Sample)  
>>> and if, say it's -1 (no data) then skip the last line of this code?

>

>> I opened each of the two files you sent me up in my  
>> NCDF\_Browser program and I could immediately see that  
>> FP\_sample in the file that causes the problem has  
>> a dimension of 0. Obviously, nothing is there, even  
>> though the variable has been defined in the file!

>

>> To look for this possibility (I have modified my own  
>> code in ncdf\_data\_\_define.pro and it will be on my  
>> web page shortly) you will have to check for a zero  
>> length dimension:

>

>> sd=hdf\_sd\_start(fileName)  
>> index=hdf\_sd\_nametoindex(sd,'FP\_sample')  
>> sds=hdf\_sd\_select(sd,index)  
>> HDF\_SD\_GetInfo, sds, DIMS=dims  
>> IF dims[0] NE 0 THEN BEGIN  
>> hdf\_sd\_getdata,sds,sample  
>> ENDIF

>  
>> I notice that every variable in that particular data file  
>> has a dimension of 0. That is one very sick puppy! :-)  
>  
>> Cheers,  
>  
>> David  
>  
>> --  
>> David Fanning, Ph.D.  
>> Fanning Software Consulting, Inc.  
>> Coyote's Guide to IDL Programming:<http://www.dfanning.com/>  
>> Sepore ma de ni thui. ("Perhaps thou speakest truth.")  
>  
> That is a wise solution. You are the man David!  
> Cheers  
> Dave

David, thank you so much, that works fine now, saving me hours of  
frustration

I appreciate it.

Matt

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