
Subject: Re: HDF_SD_GETACCESS: No content in variable, error

Posted by [aa8533](#) on Wed, 21 Jul 2010 14:59:08 GMT

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On Jul 21, 1:54 pm, 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?

>

> In my code, I check the index number to see if it is

> valid (e.g., something other than -1) before I try

> to read the data. Do you know what the value of the

> index number is when you get this error?

>

> My code looks like this:

>

> ; Get the index of the variable.

> index = HDF_SD_NameToIndex(fileID, theVariable)

> IF index EQ -1 THEN \$

> Message, 'Variable (' + theVariable + ') not found.'

>

> ; Select the variable and read it.

> varID = HDF_SD_Select(fileID, index)

> HDF_SD_GetData, varID, data, COUNT=count, \$

> START=start, STRIDE=stride

>

> 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.")

Hi - thanks for that David. However, I examined the index values and they are the same (3) both for scenes where there is (and is not) data. So the problem seems to remain.

What I think I need to do is kind of what you suggested but to check the sample for data (i.e. check that it is not -1) before I get to `hdf_sd_getdata,sds,sample` - I just don't know how ...!

Thank you again and if you have any more suggestions, I'd be most grateful.

Regards, Matt
