Subject: Re: reading HDF with HDF_SD_START() Posted by David Fanning on Mon, 08 Oct 2007 01:49:13 GMT

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fanxing_gis@163.com writes:

- i want to process image data using IDL, so the first step is to
- > read the data, the format of my data is in HDF, the code i writed as
- > follows:
- > IDL> a=dialog_pickfile()
- > IDL> hdfid=hdf_sd_start(a)
- > unluckily i encounter the error, the message is:

>

- > HDF_SD_START: Unable to start the HDF-SD interface.
- > Execution halted at: \$MAIN\$
- > what's wrong with it? please help me or give me some hints about this
- > problem!

You may find this article to be of interest:

http://www.dfanning.com/fileio_tips/nohdf.html

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.")

Subject: Re: reading HDF with HDF_SD_START() Posted by fanxing_gis on Mon, 08 Oct 2007 03:33:47 GMT

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On 10 8, 9 49, David Fanning <n...@dfanning.com> wrote:

- > fanxing_...@163.com writes:
- >> i want to process image data using IDL, so the first step is to
- >> read the data, the format of my data is in HDF, the code i writed as
- >> follows:
- >> IDL> a=dialog_pickfile()
- >> IDL> hdfid=hdf sd start(a)
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- >> HDF_SD_START: Unable to start the HDF-SD interface.
- >> Execution halted at: \$MAIN\$
- >> what's wrong with it? please help me or give me some hints about this

```
>> problem!
```

>

You may find this article to be of interest:

>

http://www.dfanning.com/fileio_tips/nohdf.html >

>

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.")

thank you, David

i'm sorry to state the occasion when the error listed above occurs.I write a programme to view the HDF data structue including scientific data set, global attributes and attributes of SD. To do that i start a new IDL session and open the HDF file with hdf sd stat(),it worked well, all the SDs were listed in widget list using hdf get info(), here i click each of the SDS the attributes or the information of the SDS could be showed in a text widget, at the beginning it is run well, but repeat the process several times the programme was halted and the error message is printed:

HDF_SD_START: Unable to start the HDF-SD interface.

Execution halted at: \$MAIN\$

in the same session i write the follow code in command line, and the same error message printed as above.

```
IDL> a=dialog_pickfile()
```

IDL> hdfid=hdf sd start(a)

after that, i try the fileinfo() function, it's worked well, the result is as follows:

** Structure <11534e0>, 7 tags, length=36, data length=36, refs=1:

STRING 'D:\AST_09T_003080820010402180000000.hdf' NAME **EXIST** LONG 1 READ LONG 1 WRITE 1 LONG **HDF** LONG 1 NETCDF LONG 0 14324417 SIZE LONG

if i describe that clearly, i hope you kind guys could help me thanks

Subject: Re: reading HDF with HDF_SD_START() Posted by David Fanning on Mon, 08 Oct 2007 03:57:32 GMT

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fanxing gis@163.com writes:

- > i'm sorry to state the occasion when the error listed above occurs.I
- > write a programme to view the HDF data structue including scientific
- > data set, global attributes and attributes of SD. To do that i start a
- > new IDL session and open the HDF file with hdf sd stat(), it worked
- > well, all the SDs were listed in widget_list using hdf_get_info(),here
- > i click each of the SDS the attributes or the information of the SDS
- > could be showed in a text widget, at the beginning it is run well, but
- > repeat the process several times the programme was halted and the
- > error message is printed:

>

- > HDF SD START: Unable to start the HDF-SD interface.
- > Execution halted at: \$MAIN\$
- > in the same session i write the follow code in command line, and the
- same error message printed as above.

>

- IDL> a=dialog_pickfile()
- > IDL> hdfid=hdf sd start(a)
- > after that,i try the fileinfo() function, it's worked well,the result
- > is as follows:
- ** Structure <11534e0>, 7 tags, length=36, data length=36, refs=1:
- STRING 'D:\AST_09T_003080820010402180000000.hdf' > NAME
- **EXIST** LONG 1 > 1 READ LONG
- WRITE LONG 1 > HDF LONG 1
- NETCDF LONG 0
- 14324417 SIZE LONG
- > if i describe that clearly ,i hope you kind guys could help me

Well, here is my guess. I think the variable you are passing to HDF_SD_START in your widget program is not what you think it is. But this is only a guess. I do think the chances of it being a programming error is the most likely probability. I'd start checking *all* your assumptions.

Cheers,

David

David Fanning, Ph.D. Fanning Software Consulting, Inc.

```
Subject: Re: reading HDF with HDF_SD_START()
Posted by fanxing gis on Mon, 08 Oct 2007 07:06:40 GMT
View Forum Message <> Reply to Message
On 10 8, 11 57, David Fanning <n...@dfanning.com> wrote:
> fanxing_...@163.com writes:
>> i'm sorry to state the occasion when the error listed above occurs.l
>> write a programme to view the HDF data structue including scientific
>> data set, global attributes and attributes of SD. To do that i start a
>> new IDL session and open the HDF file with hdf_sd_stat(),it worked
>> well, all the SDs were listed in widget list using hdf get info(),here
>> i click each of the SDS the attributes or the information of the SDS
>> could be showed in a text widget, at the beginning it is run well, but
>> repeat the process several times the programme was halted and the
>> error message is printed:
>> HDF_SD_START: Unable to start the HDF-SD interface.
>> Execution halted at: $MAIN$
>> in the same session i write the follow code in command line, and the
>> same error message printed as above.
>> IDL> a=dialog_pickfile()
>> IDL>
            hdfid=hdf_sd_start(a)
>> after that, i try the fileinfo() function, it's worked well, the result
>> is as follows:
>> ** Structure <11534e0>, 7 tags, length=36, data length=36, refs=1:
                             'D:\AST 09T 003080820010402180000000.hdf'
     NAME
                   STRING
>>
     EXIST
                  LONG
>>
                                   1
     READ
                  LONG
                                   1
>>
    WRITE
                   LONG
                                    1
>>
     HDF
                  LONG
                                  1
>>
     NETCDF
                                     0
                    LONG
>>
     SIZE
                 LONG
                              14324417
>>
>> if i describe that clearly, i hope you kind guys could help me
>
> Well, here is my guess. I think the variable you are
> passing to HDF SD START in your widget program is not
> what you think it is. But this is only a guess. I do
> think the chances of it being a programming error is
> the most likely probability. I'd start checking *all*
> your assumptions.
> 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.")-
>
> -
```

thanks David, the problem has been solved, and the reason is just what you think, a programming error resulting from unclosing the HDF file cursorily ,so the SD interface handle were used up.