
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 10/8/07 9:49 AM, David Fanning <n...@dfanning.com> wrote:
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> David
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> David Fanning, Ph.D.
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> 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:

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

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
[View Forum Message](#) <> [Reply to Message](#)

fanxing_gis@163.com writes:

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> is as follows:
> ** Structure <11534e0>, 7 tags, length=36, data length=36, refs=1:
>  NAME      STRING  'D:\AST_09T_003080820010402180000000.hdf'
>  EXIST      LONG    1
>  READ      LONG    1
>  WRITE     LONG    1
>  HDF       LONG    1
>  NETCDF    LONG    0
>  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.

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:

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>> 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:

>> NAME STRING 'D:\AST_09T_003080820010402180000000.hdf'

>> EXIST LONG 1

>> READ LONG 1

>> WRITE LONG 1

>> HDF LONG 1

>> NETCDF LONG 0

>> 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

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> David
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> 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.
