## Subject: IDL 5.2: Can't read HDF files any more ... Posted by harald on Thu, 04 Feb 1999 08:00:00 GMT

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Hello,

I've recently upgraded to IDL 5.2 on my NT machine and now I can't read my HDF files any more (which works perfectly well under IDL 5.1.1). The HDF files contains image data stored in scientific data sets (SDS). Every time I try to read the SDS, I get the following error message:

%HDF\_SD\_GETDATA: Unsupported or unknown HDF data type (16406).

The same error message appears if I use the HDF\_BROWSER program.

Does anybody know about this bug/behaviour?

Regards, Harald

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Harald Jan Jeszenszky harald@iwf.tu-graz.ac.at

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Subject: Re: IDL 5.2: Can't read HDF files any more ... Posted by Liam Gumley on Wed, 10 Feb 1999 08:00:00 GMT View Forum Message <> Reply to Message

Harald Jeszenszky wrote:

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- > read my HDF files any more (which works perfectly well under IDL
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- > error message:

>

- > %HDF\_SD\_GETDATA: Unsupported or unknown HDF data type (16406).
- > The same error message appears if I use the HDF\_BROWSER program.
- > Does anybody know about this bug/behaviour?

I've reported a bug I found when trying to read HDF3.3r1 files in IDL

5.2. It turns out the bug (in my case) stems from the HDF4.1r2 library from NCSA - it cannot read SDS objects created with HDF3.3r1.

The following code was very helpful in tracking down the problem. Try running it on your HDF file in IDL 5.2 vs. IDL 5.1.

My advice; go back to IDL 5.1. I believe a fix for this problem is planned for IDL 5.2.1.

```
Cheers,
Liam.
:---cut here---
PRO HDF_VERSION, FILE
;+
:Purpose:
   To print the version of HDF used by IDL and
   the version of HDF used to create a particular file.
:Input:
   FILE
          Name of the HDF file
:Output:
   None
:Author:
   Liam.Gumley@ssec.wisc.edu
:- Check arguments
if n_elements(file) ne 1 then $
 message, 'Argument FILE is missing'
;- Check that input file is really HDF
if not hdf ishdf(file) then begin
 help, file
 message, 'Argument FILE is not HDF'
endif
;- Print version of IDL
print, "
print, 'This is IDL version', !version
```

;- Print version of HDF library used internally by IDL

```
hdf lib info, version=ver
print, 'This version of IDL was built with ', ver
;- Print version of HDF library used to create file
id = hdf_open(file, /read)
hdf_lib_info, id, version=ver
print, "
print, file, 'was created with', ver
hdf close, id
;- List the names of all SDS in the file
sd_id = hdf_sd_start( file, /read )
hdf_sd_fileinfo, sd_id, nsds, natt
print, file, nsds, $
format = '( a, " contains ", i6, " SDS objects" )'
if nsds at 0 then begin
 print, "
 for index = 0, nsds-1 do begin
  sds id = hdf sd select(sd id, index)
  hdf_sd_getinfo, sds_id, name=name
  print, index, name, $
   format = '( "SDS object ", i6, " name is ", a )'
  hdf sd endaccess, sds id
 endfor
endif
hdf sd end, sd id
END
;---cut here---
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