

Dear all,

I was hoping someone might be able to offer some advice about an IDL problem my group have been having, and we have not been able to solve or find the answer to online. David Fanning suggested that this group might help; I've searched the archives but not found an answer, so I thought I should just ask! I hope I'm not breaking any etiquette with this post.

As part of our work we generate data in the HDF5 format (it's not HDF-EOS, in case that matters), and following the completion of our processing we have found a bug in one of the datasets contained within these files. To fix this we are writing some IDL code to load in an HDF5 file, fix the variables concerned, and write the correct values back into the HDF5 file.

Unfortunately this is not working properly--when I try to write back out to the dataset (using the same id I used to read it in) I get an error message like this:

H5D\_WRITE: can't write data: Object ID:402653184

This Object ID value is the value of the dataset I read the 'wrong' data from and am trying to write the 'right' data to. I am using IDL 7.0 on Ubuntu and have the appropriate permissions to be able to read and write the file.

I would appreciate any suggestions you may have--we are all stumped but presumably there is some sensible way to achieve this? I am happy to post all of my code (106 lines) if this would be of help; the relevant bits are here:

```
.....  
; Load relevant bits of file ;  
.....  
id = h5f_open(l2file)  
id_g1=h5g_open(id,"ORACOutput")  
  
id_d1=h5d_open(id_g1,"cloud data")  
cloud_data=h5d_read(id_d1)  
  
id_d2=h5d_open(id_g1,"cloud error")  
cloud_error=h5d_read(id_d2)
```

```
id_d3=h5d_open(id_g1,"iteration")
iteration=h5d_read(id_d3)
```

```
id_d4=h5d_open(id_g1,"phase")
phase=h5d_read(id_d4)
```

(The section of code where the bad variables--parts of cloud\_data and cloud\_error are altered--is omitted.)

```
.....
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
; Write back out and close file ;
.....
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
```

```
h5d_write,id_d1,cloud_data
h5d_write,id_d2,cloud_error
```

```
h5d_close,id_d1
h5d_close,id_d2
h5d_close,id_d3
h5d_close,id_d4
h5d_close,id_g1
h5d_close,id
```

Does anyone have any ideas where I'm going wrong?

Many thanks,

Andy

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