Subject: Reading HDF files
Posted by dean on Sat, 20 Mar 1993 23:05:26 GMT

I need some help reading and writing HDF files from IDL. I read
 some place that IDL supports HDF, but I cannot find anything like READ_HDF
 or WRITE_HDF as there are for GIF and TIFF. Can some give me a clue how
 to read and write HDFs?

    Kelly Dean
    CSU/CIRA

Subject: Re: reading hdf files
Posted by David Fanning on Wed, 29 Oct 2008 11:10:48 GMT

TimLS writes:

> Has anyone else had problems reading hdf files? I'm using a program
> that uses a variety of the H5* routines in IDL version 6.2.. I read
> one of my data files and the program takes around 5 seconds. I read a
> couple more files and suddenly it takes an age to read. The solution I
> adopt is to shutdown IDL and re-start at the point that I'd got to.
> Programming purists may disapprove but it works for me as all I'm
> doing with the data is writing it out to another format. Presumably
> there is some kind of memory allocation problem going on, but what can
> I do about it?

I think your best bet might be to read this article:

   http://www.catb.org/~esr/faqs/smart-questions.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 files
Posted by loebasboy on Wed, 29 Oct 2008 13:06:49 GMT

On 29 okt, 12:10, David Fanning <n...@dfanning.com> wrote:
> TimLS writes:
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> Fanning Software Consulting, Inc.
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You should notice that it is important to close al file_id and
datasets_id you've used as such:

 file_id = H5F_OPEN(file)
 dataset_id = H5D_OPEN(file_id, nr_bands_str)
 nr_bands = H5D_READ(dataset_id)
 H5D_CLOSE, dataset_id
 H5F_CLOSE, file_id

In this way there is no memory leakage. If this does not help I must
refer you to the link David provided.

Subject: Re: reading hdf files
Posted by jameskuyper on Wed, 29 Oct 2008 14:27:41 GMT
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TimLS wrote:
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> doing with the data is writing it out to another format. Presumably
> there is some kind of memory allocation problem going on, but what can
> I do about it?

You should change line 42. :-)

Since you have chosen not to give us any actual code to look at, we
can only guess at what the problem might be. With HDF functions, one
of the most important things to remember is that many of them come in
bookend pairs. For every _CREATE or _OPEN function, there's a
corresponding _CLOSE function that should be called when you're done
using whatever it was that you created or opened. Forgetting to close
things is the single most plausible reason I can imagine for a
slowdown such as you describe.