
Subject: Copying HDF5 datasets to a new HDF5 file
Posted by [khyde](#) on Mon, 14 Nov 2016 20:22:32 GMT
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Hello,

I am using data from an existing HDF5 file to create new products that I would like to save into a new HDF5 file. Is there an easy way to copy some of the information from the input file to the output file? For example, I would like to retain all of the file attribute information and some, but not all, of the original datasets, and then add my new data products.

The other way I thought to accomplish this was to create a copy of the original file and then delete the datasets and/or attributes I no longer need, but I didn't see an easy way to delete information either.

Lastly, I was wondering if there is any good information on creating HDF5 files in IDL. I have found the IDL help to be less than informative and I was hoping to find some good explanations of what some of the H5x_xxx programs do.

Any suggestions or ideas would be greatly appreciated.

Thanks,
Kim

Subject: Re: Copying HDF5 datasets to a new HDF5 file
Posted by [ZP Yin](#) on Tue, 15 Nov 2016 01:14:19 GMT
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On Tuesday, November 15, 2016 at 4:22:36 AM UTC+8, kimber...@noaa.gov wrote:

> Hello,

>

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> Any suggestions or ideas would be greatly appreciated.

>

> Thanks,

> Kim

Hello, Kim!

I have met the same problems too. Here is my suggestions and I hope they could be useful for you.

For the first problem, I find there is no 'easy' way to transfer the information. And I will choose the information manually, then transfer them one by one. Then add my new datasets. I think 'H5_PUTDATA'(IDL 8.5) will be helpful.

http://www.harrisgeospatial.com/docs/H5_PUTDATA.html

For the second problem, it seems that 'HDF5 does not provide a mechanism to remove a dataset from a file at this time, it is not possible to put a dataset into a file if the ID to that dataset already exists.'(http://www.harrisgeospatial.com/docs/H5_PUTDATA.html). But there is an way to make the datasets invisible(https://support.hdfgroup.org/HDF5/doc1.6/UG/10_Datasets.html) instead of deleting it.

For the third problem, I have the same feelings with you. So when I deal with these problems about H5x_XXX programs I will try a lot and read a lot information in some websites. And then ask for help like you do!

:)

Subject: Re: Copying HDF5 datasets to a new HDF5 file

Posted by [khyde](#) on Wed, 16 Nov 2016 03:43:36 GMT

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Thank you for your suggestions. I've been playing around with making new hdf5 files most of the day. I have had some success, but am struggling to create the exact file I need.

Basically, I want to replicate the files found on the ocean color web, but replace the main data products (e.g. the chlor_a and chl_ocx data found in this file: http://oceandata.sci.gsfc.nasa.gov/cgi/getfile/S2001122.L3b_DAY_CHL.nc) with new products that I created.

If anyone could provide some suggestions and sample code on how to create a new hdf5 file with all of the attribute information from the original file, but with new datasets I would really appreciate it.

Thank you again,
Kim

On Monday, November 14, 2016 at 8:14:22 PM UTC-5, ZP Yin wrote:

> On Tuesday, November 15, 2016 at 4:22:36 AM UTC+8, kimber...@noaa.gov wrote:

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