
Subject: Re: writing a structure on an HDF5 file
Posted by [djanches](#) on Mon, 31 Dec 2007 16:46:59 GMT
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On Dec 30, 9:49 pm, Dave Haffner <davehaff...@gmail.com> wrote:

```
> djanches,
>
> In principle you can do the following to create an hdf5 compound
> datatype out of your structure which you can get back using h5_parse
> (w/ the READ_DATA keyword, of course). Your structure will be under
> the _data tag.
>
> btw, I wish HDF5 was the default IDL output format, or at least a
> choice. Matlab affords this already.
>
> Hope this is some help,
> Dave
>
> ; write a structure to hdf5 as a compound datatype
>
> file = 'filename.h5'
> fid = H5F_CREATE(file)
>
> datatype_id = H5T_IDL_CREATE(structdata)
> dataspace_id=H5S_CREATE_SIMPLE(1) ; not so simple..
>
> dataset_id = H5D_CREATE(fid,'datastr',datatype_id,dataspace_id)
> H5D_WRITE, dataset_id, structdata
>
> H5S_CLOSE, dataspace_id
> H5T_CLOSE, datatype_id
>
> H5F_CLOSE, fid
>
> ; check out the file
>
> s=h5_parse('filename.h5',/read_data)
> help, /structure, s.datastr._data
Thanks Dave,
```

I'll try this

```
>
> On Dec 29, 8:12 pm, djanc...@gmail.com wrote:
>
>> I recently started working with HDF5 files and seems that all what I
>> learned about managing regular HDF files in the past is not directly
>> applied to HDF5.
```

>> What I am trying to do is in theory simple.
>> I am trying to write a structure into an HDF5 file. The structure
>> contains all sort of data (i.e, arrays, integers, and some strings).
>> I was wondering if there is a simple manner to create a new hdf5 file,
>> put the structure in it and close it. Something that I could later
>> open it and use the HDF5 Parse command to read the entire structure at
>> once.
