
Subject: IDL HDF5 compound type and dataspace
Posted by zuzucat@gmail.com on Fri, 30 Dec 2005 22:12:48 GMT
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I am trying to emulate HDF5 table functions in IDL. I thought it would be feasible to just follow the lines in hl/src/H5TA.c from HDF5 source code, since tables are high level functions in HDF5. But, I'm getting a segfault at H5D_Write line below. I wonder if anybody has an insight on my problem.

best,

Nobuki Matsui

```
FUNCTION H5TBmake_table, table_title, loc_id, dsetname, nrecords,  
chunksize, data
```

```
  print, "Table Title ", table_title  
  print, "N of Records", nrecords
```

```
  ; bail out if no proper args  
  if (n_elements(table_title) eq 0 || n_elements(loc_id) eq 0 ||  
n_elements(nrecords) eq 0 || n_elements(nrecords) eq 0 ||  
n_elements(dsetname) eq 0) then return, -1
```

```
  datatype_id = H5T_IDL_CREATE(data) ; create a datatype object  
  ; I was doing this manually with 20 lines of the code for a while.
```

```
  sid = H5S_Create_Simple(nrecords,max_dimensions=-1) ; create a  
simple dataspace  
  did = H5D_Create(loc_id, dsetname, datatype_id, sid,  
chunk_dimensions=chunksize)  
  H5D_Extend,did,size(data,/dimensions)
```

```
  print, "writing data"  
  H5D_Write, did, data  
  print, "Closing Dataspace"  
  H5S_Close, sid  
  H5D_Close, did  
  print, "All done"  
END
```

```
PRO TEST_H5TBmake_table  
  file = 'hdf5_test_table.h5'
```

```
fid = H5F_CREATE(file)
nrecords = 100
chunk_size = 20

cat = REPLICATE({cat, name:"", Weight:0.0, Sex:"", Color:""
},nrecords) ; create an array of structures

;test = h5tbmake_table( "Cat", fid, 'Cat Stats', nrecords+1,
chunk_size, cat)
test = h5tbmake_table( "Cat", fid, 'Cat Stats', nrecords,
chunk_size, cat)

H5F_Close,fid
END
```
