Subject: Writing large datasets in HDF5 file fails Posted by d.rowenhorst@gmail.co on Wed, 09 May 2012 18:11:29 GMT View Forum Message <> Reply to Message

Running IDL 8.1 on Mac 10.7.3.

I can't write out a single dataset to a HDF5 file that is larger than 2^32-1 bytes. If I try I get an error at the H5D_WRITE procedure. I can have multiple datasets in one file that add up to more than 4.3GB, but an individual dataset cannot be more than 4.3GB.

So if writing float data I can write 2^32/4-1 values, but not 2^32/4. Writing double allows for 2^32/8-1 but not more than that.

Can anyone check and see if this is platform dependent, or am I missing something more fundamental here? Here is my test code:

```
PRO Testhdf5file
filename = 'test.hdf5'
npoints = 2ll^31-1; This works
;npoints = 2ll^31 ; This does not work
data = BINDGEN(npoints)
file_id = H5F_CREATE(filename)

datatype_id = H5T_IDL_CREATE(data)
dataspace_id = H5S_CREATE_SIMPLE([npoints])
temp_ds_id = H5D_CREATE(file_id, 'Fake Data', datatype_id,dataspace_id)
H5D_WRITE, temp_ds_id, data
H5D_CLOSE, temp_ds_id
H5F_CLOSE, file_id
END
```