Subject: HDF_SD_ADDDATA problem
Posted by adfraser on Mon, 21 Apr 2008 23:24:17 GMT

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Dear Everyone,

I'm having trouble writing to an HDF file using HDF_SD_ADDDATA, but
let me set the scene quickly first.

I'm using a multispectral satellite imagery dataset in its native L1B
(HDF-EOS, it's MODIS for those who care!) format. When ordering the
data, one has the option to channel subset the data to reduce size.

I've written IDL programs to cloud mask the data, which involves
manipulating an SDS within the HDF. My programs all work fine using
the full, un-subsetted data, but whenever I try them on the subsetted
HDFs, they fall over with this error.

```
-------------------------------------------------------------- -----------
% HDF_SD_ADDDATA: Unable to write the specified HDF-SD slice.
% Execution halted at: HDFEDITSDS      28 /array/work/adfraser/
MODIS
  images/18_4_08 processing of winter2 data/output/HDFeditSDS.pro
%                $MAIN$
-------------------------------------------------------------- -----------
```

Here is the code which I've been using to write successfully to the
unsubsetted data but unsuccessfully to the subsetted data:

```
-------------------------------------------------------------- ------------
PRO HDFeditSDS, filename, sdsname, newdata

sdfileid=hdf_sd_start(filename, /rdwr)

; Find the index of the "Gridded Data" SDS.
index = HDF_SD_NAMETOINDEX(sdFileID, sdsname)

; Select the Gridded Data SDS.
thisSdsID = HDF_SD_SELECT(sdFileID, index)

HDF_SD_AddData, thisSdsID, newdata

hdf_sd_end, sdfileid

END
-------------------------------------------------------------- ------------
```

I've checked all the obvously stupid things (file access permissions are identical, and the SDS name exists within the HDF). I'm at a loss, please help!

Cheers,
Alex.

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