
Subject: Writing SD HDF files in IDL - prob with attributes
Posted by [Anne I. Morrison](#) on Fri, 14 Mar 1997 08:00:00 GMT
[View Forum Message](#) <> [Reply to Message](#)

My colleague has been trying to write an IDL procedure to write an HDF file with a set of global attributes and 4 SD datasets. It appears to write the file ok, but when trying to read it back in, it doesn't appear to have the attributes. Also, the file seems to be much bigger than it should be (nearly 4MB instead of about 1MB) Can anyone help?

Creating file goes like this:

```
file_id=HDF_OPEN(hdfile_name, /ALL)
sd_id=HDF_SD_START(hdfile_name, /RDWR)

sds_id_0=HDF_SD_CREATE(sd_id, count_string+'_0', [512,512], /FLOAT)
sds_id_1=HDF_SD_CREATE(sd_id, count_string+'_1', [512,512], /FLOAT)
sds_id_2=HDF_SD_CREATE(sd_id, count_string+'_2', [512,512], /INT)
sds_id_3=HDF_SD_CREATE(sd_id, count_string+'_3', [512,512], /FLOAT)
HDF_SD_ATTRSET, sd_id, 'AcTime', acquisition_time
HDF_SD_ATTRSET, sd_id, 'View', view
HDF_SD_ADDDATA, sds_id_0, latitude_grid
HDF_SD_ADDDATA, sds_id_1, longitude_grid
HDF_SD_ADDDATA, sds_id_2, con_word
HDF_SD_ADDDATA, sds_id_3, plot_param

AcTime_attr=HDF_SD_ATTRFIND(sd_id, 'AcTime')
HDF_SD_ATTRINFO, sd_id, AcTime_attr

HDF_SD_FILEINFO, sd_id, datasets, attributes

HDF_SD_END, sd_id
```

Reading the file back goes like this:

```
file_id=HDF_OPEN('tout', /READ)
sd_id=HDF_SD_START('tout', /READ)

HDF_SD_FILEINFO, sd_id, datasets, attributes
help, datasets, attributes

AcTime_attr=HDF_SD_ATTRFIND(sd_id, 'AcTime')
HDF_SD_ATTRINFO, sd_id, AcTime_attr, data=acquisition_time
```

And it falls over at the HDF_SD_ATTRFIND line.
Any ideas anyone?
Thanks, Anne.
