
Subject: Re: Question regarding HDF file
Posted by [James Kuyper](#) on Mon, 06 Aug 2007 15:05:47 GMT
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None wrote:

- > Hi. I have a problem rewriting the data to the original hdf file
- > (i.e., to the same dataset which i had read from, earlier) I am
- > getting negative data values. Also I am getting the same negative data
- > values if i put a dummy array instead of the data in the

The fact that you are getting negative values suggests that you may have a type conversion problem. What is the HDF data type for the SDS you're trying to overwrite? What is the IDL type of the rowp array that you're writing down below?

- > HDF_SD_ADDDATA command. I got correct values when I output the result
- > to a tiff file, but not able to get the correct values if I write it
- > back to the original file. I have posted my code bellow. Can anybody
- > please help me with a solution
- >
- > sdFileID2 = HDF_SD_Start(fname, /RdWr)
- > sdsIDsm = HDF_SD_Select(sdFileID2,im[j]); im[j] are different bands
- > HDF_SD_ADDDATA, sdsIDsm, rowp, start=[0,0], count=[x[j],y[j]]
- > ; rowp is the dataset and is of type float
- > ; x,y are the array dimensions
- > HDF_SD_EndAccess, sdsIDsm

I just performed a test, and I had no problems overwriting data using code similar to yours. The one important thing that seems to be missing from your code is a call to HDF_SD_End, but what you've written is obviously a code fragment, rather than a complete program, so I'm not sure whether that procedure call is really missing.

Subject: Re: Question regarding HDF file
Posted by [None\[1\]](#) on Mon, 06 Aug 2007 20:55:04 GMT
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On Aug 6, 11:05 am, kuyper <kuy...@wizard.net> wrote:

- > I just performed a test, and I had no problems overwriting data using
- > code similar to yours. The one important thing that seems to be
- > missing from your code is a call to HDF_SD_End, but what you've
- > written is obviously a code fragment, rather than a complete program,
- > so I'm not sure whether that procedure call is really missing.

Thanks for replying. No I have not missed that command. This is what I am doing. I am reading the dataset into a text file. the text file

contains 3 columns separated by spaces. I read the text file line by line to get the 3 values (D,A and G). use it in the formula to get the results and write it back to the HDF file. I get the correct results if I output the results to tiff file. But I am not able to get the same results when I write it back to the HDF file. this is what my code looks like

```

sdFileID2 = HDF_SD_Start(fname, /RdWr)
sdsIDsm = HDF_SD_Select(sdFileID2,im[j]) ; Image data
sdsIDsm2 = HDF_SD_Select(sdFileID2,bd[j]) ; recorection data
HDF_SD_GETDATA, sdsIDsm, rr, start=[0,0], count=[x[j],y[j]],
stride=[0,0]
HDF_SD_GETDATA, sdsIDsm2, r2
; Writing it into a text file
openw, lun, out_path+'Step1\'+strcompress(fn[3],/remove_all)
+'\'+strcompress(j,/remove_all)+'.txt', /get_lun
printf, lun, r2
close, lun
free_lun, lun

results=fltarr(x[j],y[j])
rowp=fltarr(x[j],y[j])
openr, lun1, out_path+'Step1\'+strcompress(fn[3],/remove_all)
+'\'+strcompress(j,/remove_all)+'.txt', /get_lun
; Reading line by line to D, A, G values
while ((~eof(lun1)) && (n lt x[j])) do begin
    readf, lun1, temp1
    sr = strsplit(temp1,' ', /Extract)
    d=float(sr[0])
    a=float(sr[1])
    g=float(sr[2])
    print, d, a, g
    results[n,*]=(float(a)*(rr[n,*])/float(g))+float(d)
    rowp[n,*]=(3.14159*results[n,*]*sd*sd)/(esun[j]*COS((90-
theta)*3.14159/180))
    n=n+1
endwhile
HDF_SD_ADDDATA, sdsIDsm, rowp, start=[0,0], count=[x[j],y[j]],
stride=[0,0]
HDF_SD_EndAccess, sdsIDsm
HDF_SD_END, sdFileID2

```

Thanks
Rajesh