Subject: HDF_SD_START: Invalid HDF file or filename: problem related to network issues
Posted by Robert Levy on Tue, 22 Oct 2013 18:06:50 GMT
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Hi all,
I am a group newbie, so i apologize if a solution exists but I didn't find.

Anyway, I am running a giant script to read thousands of MODIS HDF data files, which the files are located on a LVES mount (data are virtually mounted through a network).

So the problem seems to be that there are occasional network "blips" that happen. For example, I run these command:

1) determine that the file exists and is a proper HDF file
   fileHandle = HDF_OPEN(Filename, /READ)
   IF fileHandle LT 1 THEN BEGIN
    errorLevel = 1
    Return, errorLevel
   ENDIF
   HDF_CLOSE, fileHandle

2) Then I go and actually open the file:

   hdfid = HDF_SD_START(Filename, /READ)

This is where the code bombs and gives me:
   HDF_SD_START: Invalid HDF file or filename

and stops my whole code. This file exists and is a perfectly fine file.

Note that this may happen after the code is running for days (opening and closing files). If I try a second later, it works fine. Is there any way to have HDF_SD_START exit gracefully, and return an error code, rather than stop with error message? Then I could know it is a network problem and try again a few seconds later.

Thanks for any ideas.

-Rob