Subject: Re: Problem regarding ENVI file opening
Posted by Helder Marchetto on Mon, 05 Sep 2016 08:08:00 GMT
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On Sunday, September 4, 2016 at 3:30:13 PM UTC+2, Suresh Negi wrote:
> On Friday, September 2, 2016 at 6:47:00 PM UTC+5:30, wlandsman wrote:
>> On Friday, September 2, 2016 at 1:08:31 AM UTC-4, Suresh Negi wrote:
>>> On Thursday, September 1, 2016 at 3:50:10 PM UTC+5:30, Helder wrote:
>> .
>>>>
>>>> Type this in the command line:
>>>> IDL> query_tiff(file)
>>>> or
>>>> IDL> query_tiff('Composite_image1.tif')
>>>>
>>>> What does it show?
>>>>
>>>> Cheers
>>>
>>> Showing syntax error. can you please give me the script to open ENVI tiff file with full band information.
>>> Thank You
>>
>> What version of IDL do you have? If you have an old version (prior to V8.0 I think) you have to type
>>
>> IDL> print, query_tiff('Composite_image1.tif')
>>
>> so you don't get a syntax error
>
> It is showing 0

Ok, that's something to start with.
You see, if you type this:

```
IDL> print, query_tiff('thisFileDoesNotExist.tif')
          0
```

You will always get zero. If the file exists, then you get something like this:

```
IDL> print, query_tiff('E:\aRealDirectory\thisFileExists.tif')
          1
```

Now here is the catch. This is all described here:
http://www.harrisgeospatial.com/docs/QUERY_TIFF.html
and here:
http://www.harrisgeospatial.com/docs/query___routines.html

And you can do more... once you get a 1 as a response (the file exists!) then you can try this:

```
IDL> print, query_tiff('E:\aRealDirectory\thisFileExists.tif', moreInfo)
         1
IDL> help, moreInfo
** Structure <16c13620>, 19 tags, length=152, data length=136, refs=1:
   CHANNELS        LONG                 1
   DIMENSIONS      LONG      Array[2]
   HAS_PALETTE     INT               0
   IMAGE_INDEX     LONG                 0
   NUM_IMAGES      LONG                 1
   PIXEL_TYPE      INT              12
   TYPE            STRING    'TIFF'
   BITS_PER_SAMPLE LONG                16
   ORIENTATION     LONG                 1
   PLANAR_CONFIG   LONG                 1
   PHOTOMETRIC     LONG                 1
   POSITION        FLOAT     Array[2]
   RESOLUTION      FLOAT     Array[2]
   UNITS           LONG                 2
   TILE_SIZE       LONG      Array[2]
   DESCRIPTION     STRING    ''
   DOCUMENT_NAME   STRING    ''
   DATE_TIME       STRING    ''
   VERSION         LONG                42
```

You see what happened? He got a lot of information from the tiff header! If you want to know what the dimensions are, then type:

```
IDL> print, moreInfo.dimensions
       1024        1024
```

My file has 1024 rows and 1024 columns.

See how it works?

Try the above and see what happens. Remember to put the full path ('E:\aRealDirectory\') before the file name (an alternative would be to use the CD command, but one thing at a time...).

Try reading the documentation. It IS helpful.

Good luck!
