Subject: QUERY_TIFF fails even when READ_TIFF succeeds!
Posted by tom.grydeland on Mon, 06 Oct 2014 13:34:39 GMT
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What the title says. I have some in-house generated TIFF files which I can read back perfectly fine in a number of systems, including READ_TIFF in IDL 8.2.2 and 8.3.

QUERY_TIFF, however, does not recognize the file format. This is a nuisance, because I'd like to use the GEOTIFF keyword to extract the relevant GeoTIFF tags from the file.

```
----------------------------------------
IDL> help, read_tiff('Z_24_16t.tif')
<Expression>    INT       = Array[6000, 6000]
IDL> print, query_tiff('Z_24_16t.tif', tiffinfo, geo=geoinfo)
           0
IDL> help, tiffinfo, geoinfo
TIFFINFO        UNDEFINED = <Undefined>
GEOINFO         UNDEFINED = <Undefined>
IDL> help, !version
** Structure !VERSION, 8 tags, length=104, data length=100:
   ARCH            STRING    'x86_64'
   OS              STRING    'linux'
   OS_FAMILY       STRING    'unix'
   OS_NAME         STRING    'linux'
   RELEASE         STRING    '8.2.2'
   BUILD_DATE      STRING    'Jan 23 2013'
   MEMORY_BITS     INT             64
   FILE_OFFSET_BITS
                   INT             64
----------------------------------------
```

(Output from IDL 8.3 is identical, except for the RELEASE and BUILD_DATE tags in the !version structure)

Tiffinfo reports the following:

```
----------------------------------------
TIFFReadDirectory: Warning, Z_24_16t.tif: unknown field with tag 33550 (0x830e) encountered.
TIFFReadDirectory: Warning, Z_24_16t.tif: unknown field with tag 33922 (0x8482) encountered.
TIFFReadDirectory: Warning, Z_24_16t.tif: unknown field with tag 42113 (0xa481) encountered.
TIFF Directory at offset 0x1b21fdc (28450780)
  Image Width: 6000 Image Length: 6000
  Tile Width: 400 Tile Length: 400
  Bits/Sample: 16
  Sample Format: signed integer
  Compression Scheme: AdobeDeflate
  Photometric Interpretation: min-is-black
  Samples/Pixel: 1
```

Planar Configuration: single image plane
Tag 33550: 0.000833,0.000833,0.000000
Tag 33922: 0.000000,0.000000,0.000000,-65.000416,-15.000416,0.000000
Tag 42113: -32768

(The unrecognized tags are the GeoTIFF-related tags ModelPixelScaleTag, ModelTiePointTag and GDALNoData, none of which should be a problem)

If anyone from Exelis are listening, this is something which should be eminently fixable.

Regards,

Tom Grydeland
