
Subject: Re: TIFF Read/Write Bug?

Posted by [David Fanning](#) on Fri, 10 May 2013 20:48:03 GMT

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David Fanning writes:

```
> Is there a problem writing signed integer arrays to TIFF files?
>
> Here is my code:
>
>   outFilename = Filepath('forest.tif')
>   ageImage = Fix(ageImage)
>   Help, ageImage
>   AGEIMAGE      INT      = Array[8600, 8407]
>   ageImage[missingIndices]=-999
>   Write_Tiff, outFilename, Reverse(ageImage,2), /SHORT, /SIGNED
>   testImage = Read_Tiff(outfilename)
>   testimage = Reverse(testimage,2)
>   Help, testImage
>   TESTIMAGE     BYTE     = Array[8600, 8407]
>
> This is IDL 8.2.2, 64-bit, on Windows 7. '
```

Whoa! I left this out of my example the other day because it seemed (at the time) completely irrelevant.

Here is test code that works perfectly:

```
.*****
,
outFilename = 'forest.tif'
ageimage = read_tiff(file_which('boulder.tif'))
ageImage = Fix(ageImage)
Help, ageImage
dims = SIZE(ageimage, /DIMENSIONS)
missingIndices = long(randomu(seed, 1000) * product(dims))
ageImage[missingIndices]=-999
Write_Tiff, outFilename, Reverse(ageImage,2), GEOTIFF=geo, $
    /SHORT, /SIGNED
testImage = Read_Tiff(outfilename)
testimage = Reverse(testimage,2)
Help, testImage
END
.*****
,
```

Running it gives me:

```
AGEIMAGE      INT      = Array[1071, 1390]
TESTIMAGE     INT      = Array[1071, 1390]
```

BUT!!!

If I add color vectors to the file, watch this:

```
.*****
;
outFilename = 'forest.tif'
ageimage = read_tiff(file_which('boulder.tif'))
ageImage = Fix(ageImage)
Help, ageImage
dims = SIZE(ageimage, /DIMENSIONS)
missingIndices = long(randomu(seed, 1000) * product(dims))
ageImage[missingIndices]=-999
TVLCT, r, g, b, /GET
Write_Tiff, outFilename, Reverse(ageImage,2), GEOTIFF=geo, $
    /SHORT, /SIGNED, RED=r, GREEN=g, BLUE=b
testImage = Read_Tiff(outfilename)
testimage = Reverse(testimage,2)
Help, testImage
END
.*****
;

AGEIMAGE      INT      = Array[1071, 1390]
TESTIMAGE     BYTE     = Array[1071, 1390]
```

Is that weird, or what!?

Can anyone reproduce this on their machines?

Cheers,

David

--

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Coyote's Guide to IDL Programming: <http://www.idlcoyote.com/>

Sepore ma de ni thue. ("Perhaps thou speakest truth.")
