
Subject: Issue loading TIFF images with plugin/TIF

Posted by [Tom1](#) on Fri, 13 Jan 2023 16:44:03 GMT

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Hi Mirek,

I get a crash when loading certain TIFF -images with plugin/TIF. (I'm testing with U++ examples/ImageView.) Debugger takes me to `gtTileContig()` in `tif_getimage.c`:

```
if (flip & FLIP_HORIZONTALLY) {  
    uint32 line;
```

```
    for (line = 0; line < h; line++) {  
        uint32 *left = raster + (line * w);  
        uint32 *right = left + w - 1;
```

```
        while ( left < right ) {  
            uint32 temp = *left;  
            *left = *right;  
            *right = temp;  
            left++;  
            right--;  
        }  
    }  
}
```

The problem is that 'raster' is a null pointer already when `TIFFRGBAImageGet()` is called from `tifupp.cpp`.

```
bool res = TIFFRGBAImageGet(this, 0, width, height);
```

Crashing depends on the filling order of the image and associated flipping thereof.

I have attached a sample set of GeoTIFF images (downloaded from the internet many years ago) that are readable if I comment out the flipping code. However, they obviously load in whatever orientation they like.

Could you please look at this issue, clear the crash and hopefully also solve the problem with orientation? The way 'TIFFRGBAImageGet' is used here is a bit too fascinating for me to handle.

BTW: I must say that I was both surprised and very pleased when I discovered that plugin/TIF internally supported GeoTIFF tags in such a clean and elegant manner. I'm hoping to replace my old GeoTIFF reader with plugin/TIF now.

Thanks and best regards,

Tom

EDIT: Please note that the attached data set also includes files with name `tp_image*.tif` using some old proprietary Intergraph tag 33918 and associated packets. I'm not expecting to support those old non-standard parts of intergraph files. However, it would be nice to be able to deal with

the TIFFTAG_GEOTIEPOINTS tag even without TIFFTAG_GEOPIXELSCALE using the associated mappings.

Additionally it would be useful to store the data in GeoKeys as metadata. I mean something like `attr.GetAdd("ProjectedCSTypeGeoKey") = Value((int)epsgcode);` and equivalent for all found GeoKeys. This would enable extending handling of specific files without further changes to plugin/TIF.

File Attachments

1) [GeoTIFF_Samples_from_zi_imaging.zip](#), downloaded 46 times
