QGIS Application - Bug report #12795
Georeferencer generates incorrect GDAL script when input file is JPG

2015-05-21 01:43 AM - Casper Børgesen

Status:	Closed		
Priority:	Normal		
Assignee:			
Category:	C++ plugins/Georeferencer		
Affected QGIS version:	2.8.5	**Regression?:**	No
Operating System:		**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	end of life
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	20891

Description

Problem:

When georeferencing a *JPEG* image QGIS return telling the transformation could not be made.

Why:

According to the *GDAL script* QGIS can generate, the process is split into two steps:

1. gdal_translate
2. gdalwarp

Script:

```
gdal_translate -of GTiff -gcp ... -gcp ... "original.jpg" "temp.jpg"
gdalwarp -r near -tps -co COMPRESS=LZW -dstalpha "temp.jpg" "result.tif"
```

The input and output argument provided to gdal_translate is both with *JPG* extension, while the -of argument is GTiff. gdalwarp cannot handle a GeoTIFF image with JPG extension.

Solution:

So either should the first process set the -of argument to JPEG (in this instance) or change the output extension to *TIF*.

History

#1 - 2015-06-18 12:32 AM - Nyall Dawson

- Status changed from Open to Feedback

I can't reproduce - is this only when using the generated GDAL scripts? Does the georeferencing work OK from within QGIS itself?

#2 - 2015-06-18 05:33 AM - Casper Børgesen

Nyall Dawson wrote:

> *I can't reproduce - is this only when using the generated GDAL scripts? Does the georeferencing work OK from within QGIS itself?*

I reported this problem because my users couldn't use QGIS directly and I had to create a batch script to solve the problem. Thats why I discovered the JPEG/TIFF problem.

I have a rather large (30MB) JPEG image and when I use QGIS to georeference it, I get the error "Failed to compute GCP transform. Transform is not solvable.". When I correct the JPEG/TIFF problem in the correspondig GDAL script generated by QGIS, the same transform succeeds. Thats why I thought the problem indeed was the extension.

I have just tried though with a small JPEG image and QGIS was able to transform it. I have tried both in QGIS f4c3f3d (latest weekly for windows).

Could this be image size related somehow?

#3 - 2015-06-18 05:45 AM - Nyall Dawson

So... to clarify, there's two issues. One is that the generated GDAL script is wrong, the second is that QGIS can't transform your file. Can you open a second issue for the failing to transform issue, and attach a link to the data and GCP points file?

#4 - 2015-06-18 05:46 AM - Nyall Dawson

- Subject changed from Georeferencer sets wrong extension when inputting JPEG to Georeferencer generates incorrect GDAL script when input file is JPG

#5 - 2015-12-27 03:11 PM - Giovanni Manghi

- Operating System deleted (windows)
- Affected QGIS version changed from 2.8.1 to 2.8.5
- Status changed from Feedback to Open

#6 - 2017-05-01 01:07 AM - Giovanni Manghi

- Regression? set to No
- Easy fix? set to No

#7 - 2019-03-09 03:12 PM - Giovanni Manghi

- Resolution set to end of life
- Status changed from Open to Closed

End of life notice: QGIS 2.18 LTR

Source:

http://blog.qgis.org/2019/03/09/end-of-life-notice-qgis-2-18-ltr/