QGIS Application - Bug report #9080
GdalTools (QGIS 2.0.1) fail if file path includes non-ascii characters

2013-11-18 05:35 PM - Minoru Akagi

Status:	Closed			
Priority:	Normal			
Assignee:				
Category:	Processing/GDAL			
Affected QGIS version:	2.0.1	**Regression?:**	No	
Operating System:	Windows	**Easy fix?:**	No	
Pull Request or Patch supplied:		**Resolution:**	not reproducable	
Crashes QGIS or corrupts data:		**Copied to github as #:**	17725	

Description

This problem was fixed once in 1.9 (commit:8970a1f), but it was affected by commit:c9eb4f2 I made to fix an issue #8010. I'm sorry for this. To fix it again, there might be two solutions in QGIS side.

1. revert commit:c9eb4f2
Most users do not set the environment variable GDAL_FILENAME_IS_UTF8, I guess.

2. add --config GDAL_FILENAME_IS_UTF8 NO option into gdal command arguments.
This works in my environment. I think this way is better than 1.

History

#1 - 2013-11-18 10:34 PM - Minoru Akagi

Another solution is here! in qgis.bat (qgis.bat.tmpl):

    - set GDAL_FILENAME_IS_UTF8=YES
    + set GDAL_FILENAME_IS_UTF8=

These have the same meaning since internal default value of GDAL_FILENAME_IS_UTF8 is YES, and the new setting do not force the environment variable value to gdal program process.

#2 - 2014-03-10 12:11 AM - Minoru Akagi

.exe utility programs (e.g. gdalwarp.exe) work with one of the above options, but python utilities (e.g. gdal_merge.py) do not work in any ways. I tested some more:

    # gdalwarp works with the configuration option GDAL_FILENAME_IS_UTF8=NO
    D:\\>gdalwarp --config GDAL_FILENAME_IS_UTF8 NO □□□\N34E130.tif □□□\N34E131.tif out.tif
    Processing input file □□□\N34E130.tif.
    0...10...20...30...40...50...60...70...80...90...100 - done.
    Processing input file □□□\N34E131.tif.
    0...10...20...30...40...50...60...70...80...90...100 - done.

    # gdal_merge doesn't work with directly specified non-ASCII path
    D:\\>gdal_merge --config GDAL_FILENAME_IS_UTF8 NO -o out.tif □□□\N34E130.tif □□□\N34E131.tif
    ERROR 4: `eXg\\N34E130.tif' does not exist in the file system,

gdal_merge works with UTF-8 encoded parameter file
param.txt contains string "-o out.tif ▯▯▯\N34E130.tif ▯▯▯\N34E131.tif" in UTF-8
D:\\>gdal_merge --config GDAL_FILENAME_IS_UTF8 YES --optfile param.txt
0...10...20...30...40...50...60...70...80...90...100 - done.

gdal_merge doesn't work with CP932 encoded parameter file
D:\\>gdal_merge --config GDAL_FILENAME_IS_UTF8 NO --optfile param_CP932.txt
ERROR 4: `▯▯▯▯▯N34E130.tif' does not exist in the file system,
and is not recognised as a supported dataset name.

gdalwarp works with non-ASCII path + wildcard
D:\\>gdalwarp --config GDAL_FILENAME_IS_UTF8 NO ▯▯▯*.tif out.tif
Creating output file that is 3601P x 1201L.
Processing input file ▯▯▯\N34E130.tif.
0...10...20...30...40...50...60...70...80...90...100 - done.
Processing input file ▯▯▯\N34E131.tif.
0...10...20...30...40...50...60...70...80...90...100 - done.
Processing input file ▯▯▯\N34E132.tif.
0...10...20...30...40...50...60...70...80...90...100 - done.

gdalwarp doesn't work with non-ASCII path + wildcard in UTF-8 encoded parameter file
param_warp.txt contains string "▯▯▯*.tif out.tif"
D:\\>gdalwarp --config GDAL_FILENAME_IS_UTF8 YES --optfile param_warp.txt
ERROR 4: `▯▯▯▯▯.tif' does not exist in the file system,
and is not recognised as a supported dataset name.

#3 - 2014-06-12 02:20 AM - Minoru Akagi

I did not understand this problem well. GdalTools do not simply set GDAL_FILENAME_IS_UTF8=NO, but append "NO" to the variable.
GDAL_FILENAME_IS_UTF8 is set to "YES;NO" after running one of GdalTools. This is why GDAL tools (.exe) do not work with non-ASCII path in
Windows.

#4 - 2017-01-02 05:55 AM - Giovanni Manghi
- Category changed from GDAL Tools to Processing/GDAL

#5 - 2017-02-07 01:30 AM - Alexander Bruy
- Status changed from Open to Feedback

Is it true for Processing front-end in master?

#6 - 2017-02-27 02:48 PM - Giovanni Manghi
- Resolution set to not reproducable
- Status changed from Feedback to Closed

Closing for lack of feedback.