

QGIS Application - Bug report #18413

Incorrect Python ver. with GDAL Merge tool in QGIS 3

2018-03-12 01:49 AM - Joe Krienert

Status:	Closed	
Priority:	High	
Assignee:	Joe Krienert	
Category:	Processing/GDAL	
Affected QGIS version:	3.0.0	Regression?: Yes
Operating System:	Windows 10 64bit	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution: up/downstream
Crashes QGIS or corrupts data:	No	Copied to github as #: 26302
Description Used OSGeo4W64 installer for QGIS 3 and friends. Made sure GDAL libs were included. When running GDAL Merge tool an error is raised similar to #17298 Adding... <pre>python --version</pre> ... to the gdal_merge.bat indicates it is trying to use 2.7.5.		
Related issues: Duplicates QGIS Application - Bug report # 17298: Processing: gdal merge pyth... Closed 2017-10-17		

History

#1 - 2018-03-12 02:01 AM - Joe Krienert

Error output:

```
2018-03-11T19:56:08 INFO cmd.exe /C gdal_merge.bat -pct -ot Float32 -of GTiff -o "C:/Users/Joe M. Krienert/Desktop/Output.tif"
C:/Users/Joe M. Krienert/Desktop/ned03m37089a1.tif C:/Users/Joe M. Krienert/Desktop/ned03m37089b2.tif
2018-03-11T19:56:08 INFO GDAL execution console output
Python 2.7.5
File "C:\OSGEO4~1\apps\Python36\lib\site.py", line 177
    file=sys.stderr)
    ^
SyntaxError: invalid syntax
```

#2 - 2018-03-12 02:25 AM - Giovanni Manghi

- Category changed from GDAL Tools to Processing/GDAL
- Status changed from Open to Feedback
- Regression? changed from No to Yes

So the error does not seems related to the python version, right?

#3 - 2018-03-12 02:32 AM - Joe Krienert

Should GDAL be using Python version 3.6 in QGIS 3? If so, then the Python version might be the problem. If not, then there might be something astray in the basic OSGeo4W64 installer?

#4 - 2018-03-12 02:45 AM - Giovanni Manghi

Joe Krienert wrote:

Should GDAL be using Python version 3.6 in QGIS 3? If so, then the Python version might be the problem. If not, then there might be something astray in the basic OSGeo4W64 installer?

yes, qgis 3 uses python 3.

#5 - 2018-03-12 02:52 AM - Joe Krienert

When opening the Python terminal plugin in QGIS 3 desktop and import/calling `print(sys.version)`, the ver. stated is Python 3.
Could the GDAL merge error be associated with conflicting syntax of attempting to run Python 3 commands in a Python 2.7 environment?

#6 - 2018-03-12 11:31 AM - Joe Krienert

```
Python 2.7.5
File "C:\OSGEO4~1\apps\Python36\lib\site.py", line 177
    file=sys.stderr)
    ^
Syntax Error: invalid syntax
```

Does this code snippet from the GDAL merge tool log suggest a conflict between the library (Python36) and active Python version (2.7.5)?
Seems anomolous that the Python plugin terminal tells Python 3 as the active version, but the processing tool call to GDAL states ver 2.7.5.

Does GDAL not support Python 3?

#7 - 2018-03-12 05:37 PM - Joe Krienert

This test suggest that GDAL is switching the active python version from v. 3.6 to 2.7.

From a freshly opened (as admin) OSGeo4W shell...

Check the current ver. of Python in use:

```
C:\Windows\System32>python --version
Python 2.7.5
```

Oddly set to ver. 2.7.5, update to ver. 3 environment:

```
C:\Windows\System32>gdal-dev-py3-env
C:\Windows\System32>call gdal-dev-env.bat
```

```

C:\Windows\System32>SET GDAL_DATA=C:\OSGEO4~1\apps\gdal-dev\share\gdal
C:\Windows\System32>SET GDAL_DRIVER_PATH=C:\OSGEO4~1\apps\gdal-dev\bin\gdalplugins
C:\Windows\System32>PATH
C:\OSGEO4~1\apps\gdal-dev\bin;C:\OSGEO4~1\apps\Python36\Scripts;C:\OSGEO4~1\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\system32\WBem;C:\OSGEO4~1\apps\msys\bin
C:\Windows\System32>call py3_env.bat
C:\Windows\System32>SET PYTHONPATH=
C:\Windows\System32>SET PYTHONHOME=C:\OSGEO4~1\apps\Python36
C:\Windows\System32>PATH
C:\OSGEO4~1\apps\Python36;C:\OSGEO4~1\apps\Python36\Scripts;C:\OSGEO4~1\apps\gdal-dev\bin;C:\OSGEO4~1\apps\Python36\Scripts;C:\OSGEO4~1\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\system32\WBem;C:\OSGEO4~1\apps\msys\bin
C:\Windows\System32>SET PYTHONPATH=C:\OSGEO4~1\apps\gdal-dev\pymod3\lib\site-packages;
C:\Windows\System32>PATH
C:\OSGEO4~1\apps\gdal-dev\pymod3\scripts;C:\OSGEO4~1\apps\Python36;C:\OSGEO4~1\apps\Python36\Scripts;C:\OSGEO4~1\apps\gdal-dev\bin;C:\OSGEO4~1\apps\Python36\Scripts;C:\OSGEO4~1\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\system32\WBem;C:\OSGEO4~1\apps\msys\bin
EO4~1\apps\msys\bin

```

Verify environment ver. changed:

```

C:\Windows\System32>python --version
Python 3.6.0

```

Attempt GDAL merge:

```

C:\Windows\System32>gdal_merge.bat -pct -ot Float32 -of GTiff -o "C:/Users/Joe/Desktop/OUTPUT.tif" D:/Personal/ned03m37089a1.tif
D:/Personal/ned03m37089a2.tif
File "C:\OSGEO4~1\apps\Python36\lib\site.py", line 177
    file=sys.stderr)
    ^
SyntaxError: invalid syntax

```

Double check Python environment ver:

```

C:\Windows\System32>python --version
Python 2.7.5

```

Why would calling GDAL merge reset the python environment ver?

#8 - 2018-03-12 08:39 PM - Jürgen Fischer

- *Description updated*

#9 - 2018-03-30 11:12 AM - Jürgen Fischer

- *Duplicates Bug report #17298: Processing: gdal merge python error on QGIS 3 added*

#10 - 2018-06-04 04:14 AM - Nyal Dawson

- *Resolution set to up/downstream*
- *Status changed from Feedback to Closed*

This was fixed upstream in osgeo4w