

# QGIS Application - Bug report #17298

## Processing: gdal merge python error on QGIS 3

2017-10-17 04:58 PM - Giovanni Manghi

<b>Status:</b>	Closed	<b>Regression?:</b>	Yes
<b>Priority:</b>	High	<b>Easy fix?:</b>	No
<b>Assignee:</b>	Victor Olaya	<b>Resolution:</b>	fixed/implemented
<b>Category:</b>	Processing/GDAL	<b>Copied to github as #:</b>	25196
<b>Affected QGIS version:</b>	master		
<b>Operating System:</b>	Windows, MacOS		
<b>Pull Request or Patch supplied:</b>	None		
<b>Crashes QGIS or corrupts data:</b>	No		

**Description**

Algorithm 'Merge' starting...

Input parameters:  
 { 'INPUT' : ['C:/Users/qgis/Desktop/merge\_null/OUTPUT1.tif', 'C:/Users/qgis/Desktop/merge\_null/OUTPUT2.tif'], 'PCT' : False, 'SEPARATE' : False, 'OPTIONS' : "", 'DATA\_TYPE' : 5, 'OUTPUT' : 'C:/Users/qgis/AppData/Local/Temp/processing\_311e3738739c4ad08b8f21b50bdf7b5/2d82bd2adfdc43c4989ea7cff35be575/OUTPUT.tif' }  
 UTPUT.tif }

GDAL command:  
 cmd.exe /C gdal\_merge.bat -ot Float32 -of GTiff -o C:/Users/qgis/AppData/Local/Temp/processing\_311e3738739c4ad08b8f21b50bdf7b5/2d82bd2adfdc43c4989ea7cff35be575/OUTPUT.tif C:/Users/qgis/Desktop/merge\_null/OUTPUT1.tif C:/Users/qgis/Desktop/merge\_null/OUTPUT2.tif

GDAL command output:  
 File "C:\OSGEO4~1\apps\Python36\lib\site.py", line 177  
 file=sys.stderr)  
 ^  
 SyntaxError: invalid syntax  
 Execution completed in 0.13 seconds  
 Results:  
 {'OUTPUT': <QgsProcessingOutputLayerDefinition  
 {'sink':C:/Users/qgis/AppData/Local/Temp/processing\_311e3738739c4ad08b8f21b50bdf7b5/2d82bd2adfdc43c4989ea7cff35be575/OUTPUT.tif, 'createOptions': {'fileEncoding': 'System'}}>}

Loading resulting layers  
 Algorithm 'Merge' finished

Other GDAL tools seems not affected.

**Related issues:**

Related to QGIS Application - Bug report # 15749: Processing: gdal merge conv...	<b>Closed</b>	<b>2016-10-24</b>
Related to QGIS Application - Bug report # 17846: Polygonize (raster to vecto...	<b>Closed</b>	<b>2018-01-12</b>
Duplicated by QGIS Application - Bug report # 18413: Incorrect Python ver. wi...	<b>Closed</b>	<b>2018-03-12</b>

### History

- #1 - 2017-10-23 10:28 AM - Jürgen Fischer**  
 - Related to Bug report #15749: Processing: gdal merge converts no data in 0 added
- #2 - 2017-10-30 05:41 AM - Nyal Dawson**  
 - Operating System set to Windows

Seems a windows-specific issue

### #3 - 2017-10-31 04:54 AM - Nyal Dawson

- Resolution set to up/downstream

I've looked into this - I don't believe this is a QGIS issue, but rather an osgeo4w packaging issue. The issue is that the gdal\_merge.bat script runs gdal\_merge.py under python2, not python3, which leads to the resulting error. (Indeed this issue applies to all the gdal\_\*.bat scripts). We'd require equivalent batch files which explicitly run these python utilities under python3.

### #4 - 2017-11-01 11:07 AM - Jürgen Fischer

- Description updated

### #5 - 2017-11-01 11:15 AM - Jürgen Fischer

- Status changed from Open to Feedback

python should point to python3 when run from QGIS3:

Algorithm 'Verschmelzen' starting...

Input parameters:

```
{ 'INPUT': ['D:/TEMP/test/10438_230601_d_gr_01.tiff'], 'PCT': False, 'SEPARATE': False, 'OPTIONS': '', 'DATA_TYPE': 5, 'OUTPUT': 'C:/Users/jef.NORBIT/AppData/Local/Temp/processing_21c16c31984843028ddf4bacebba901a/c3b0c4c14a65448da9569b9fab6b30b5/OUTPUT.tif' } GDAL T.tif }
```

GDAL command:

```
cmd.exe /C gdal_merge.bat -ot Float32 -of GTiff -o
```

```
C:/Users/jef.NORBIT/AppData/Local/Temp/processing_21c16c31984843028ddf4bacebba901a/c3b0c4c14a65448da9569b9fab6b30b5/OUTPUT.tif D:\TEMP\T.tif D:\TEMP\test\XXX.tiff
```

GDAL command output:

```
C:\WINDOWS\system32>python --version
```

```
Python 3.6.0
```

```
C:\WINDOWS\system32>path
```

```
PATH=C:\OSGEO4~1\apps\Python36\lib\site-packages\numpy\core;C:\OSGEO4~1\apps\qgis-dev\bin;C:\OSGEO4~1\apps\grass\grass-7.2.2\lib;C:\OSGEO4~1\apps\grass\grass-7.2.2\bin;C:\OSGEO4~1\apps\Python36;C:\OSGEO4~1\apps\Python36\Scripts;C:\OSGEO4~1\apps\qt5\bin;C:\OSGEO4~1\apps\Python27\Scripts;C:\OSGEO4~1\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\system32\WBem;C:\OSGEO4~1\apps\Python36\lib\site-packages\pypiwin32_system32;
```

```
Warning 1: TIFFFetchNormalTag:ASCII value for tag "Software" contains null byte in value; value incorrectly truncated during reading due to implementation limitations
```

```
0Warning 1: TIFFFetchNormalTag:ASCII value for tag "Software" contains null byte in value; value incorrectly truncated during reading due to implementation limitations
```

```
...10...20...30...40...50...60...70...80...90...100 - done.
```

```
Execution completed in 0.64 seconds
```

```
Results:
```

```
{'OUTPUT': <QgsProcessingOutputLayerDefinition
```

```
{'sink':C:/Users/jef.NORBIT/AppData/Local/Temp/processing_21c16c31984843028ddf4bacebba901a/c3b0c4c14a65448da9569b9fab6b30b5/OUTPUT.tif, 'createOptions': {'fileEncoding': 'System'}}}>
```

Lade Ergebnis Layer  
Algorithm 'Verschmelzen' finished

with python --version and path added to gdal\_merge.bat

**#6 - 2017-11-02 12:32 PM - Giovanni Manghi**

- Resolution deleted (up/downstream)  
- Status changed from Feedback to Open

**#7 - 2018-01-15 08:14 AM - Alexander Bruy**

- Related to Bug report #17846: Polygonize (raster to vector) fails added

**#8 - 2018-02-08 10:47 PM - Salvatore Larosa**

- Operating System changed from Windows to Windows, MacOS

I can confirm it even on macos.

**#9 - 2018-02-22 10:58 AM - Giovanni Manghi**

Still true on the latest master.

**#10 - 2018-02-22 11:14 AM - Luigi Pirelli**

not confirmed with qgis master installed yesterday on win10 on my laptop... twin check with Giovanni on his laptop confirm the issue. Checking what local condition generate the error

**#11 - 2018-02-22 11:25 AM - Luigi Pirelli**

confirmed in this conditions:

Run qgis from start bar => e.g. run C:\<osgeo install>\bin\qgis-dev-bin-g7.4.0.exe

In my first test, that successfully end, I run qgis from cmd or osgeo shell running C:\<osgeo install>\bin\qgis-dev-g7.4.0.bat

e.g. the correct OSGeo4W env is loaded.

the problem seems a OSGe4W packaging problem

**#12 - 2018-02-22 12:26 PM - Luigi Pirelli**

as suggested by @jürgen adding load of osgeo4w env just in any command wrapper fix the issue

**#13 - 2018-02-22 12:32 PM - Luigi Pirelli**

what I'm not sure with the above fiex is that setting the osgeo4w env in each command wrapper does not allow to run all comands in a general custom osgeo4w env that can be useful to set for example to set a custom PATH or something else.

**#14 - 2018-02-22 01:05 PM - Jürgen Fischer**

- Resolution set to fixed/implemented
- Status changed from Open to Closed

Fixed in OSGeo4W's python-core.

**#15 - 2018-03-30 11:12 AM - Jürgen Fischer**

- Duplicated by Bug report #18413: Incorrect Python ver. with GDAL Merge tool in QGIS 3 added