

QGIS Application - Bug report #20895

Raster Merge Failure

2018-12-30 01:21 AM - Corey Rueckheim

Status:	Closed	
Priority:	Normal	
Assignee:		
Category:	Build/Install	
Affected QGIS version:	3.4.3	Regression?: No
Operating System:	Windows 10	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution: up/downstream
Crashes QGIS or corrupts data:	No	Copied to github as #: 28714
Description		
<p>After loading two geotiff DEMs into separate layers, then attempting a Raster --> Miscellaneous --> Merge... of the two layers, it takes only a few seconds to fail, resulting in a new layer of the correct size, but with no elevation data. Near the beginning of the log it says "RuntimeError: module compiled against API version 0xc but this version of numpy is 0xa" and near the end it says "No module named _gdal_array". This worked fine in the previous version of QGIS I had and is a critical part of my work.</p> <p>I thought maybe I needed to delete my older version of QGIS, so ultimately I deleted all QGIS files I could find throughout my system and then reinstalled, but that didn't help.</p> <p>Here is the entire log:</p> <pre>Processing algorithm... Algorithm 'Merge' starting... Input parameters: { 'DATA_TYPE' : 5, 'INPUT' : ['D:/SteamLibrary/steamapps/common/assetto corsa/content/track/tuttlerridge/resources/LIDAR/Monroe/monroe', 'D:/SteamLibrary/steamapps/common/assetto corsa/content/track/tuttlerridge/resources/LIDAR/Vernon/vernon'], 'NODATA_INPUT' : None, 'NODATA_OUTPUT' : None, 'OPTIONS' : '', 'OUTPUT' : 'C:/Users/corey/AppData/Local/Temp/processing_6399c68c009946eeb88963854255a4cd/1feb7c0f4e8542e8a6583730da4eebcb/OUTPUT.b/OUTPUT.tif', 'PCT' : False, 'SEPARATE' : False }</pre> <p>GDAL command:</p> <pre>cmd.exe /C gdal_merge.bat -ot Float32 -of GTiff -o C:/Users/corey/AppData/Local/Temp/processing_6399c68c009946eeb88963854255a4cd/1feb7c0f4e8542e8a6583730da4eebcb/OUTPUT.b/OUTPUT.tif --optfile C:/Users/corey/AppData/Local/Temp/processing_6399c68c009946eeb88963854255a4cd/mergeInputFiles.txt</pre> <p>GDAL command output:</p> <pre>ORuntimeError: module compiled against API version 0xc but this version of numpy is 0xa</pre> <p>Traceback (most recent call last):</p> <pre>File "C:\QGIS\bin\gdal_merge.py", line 611, in <module> sys.exit(main()) File "C:\QGIS\bin\gdal_merge.py", line 596, in main fi.copy_into(t_fh, band, band, nodata) File "C:\QGIS\bin\gdal_merge.py", line 343, in copy_into</pre>		

nodata_arg)

File "C:\QGIS\bin\gdal_merge.py", line 124, in raster_copy

m_band)

File "C:\QGIS\bin\gdal_merge.py", line 180, in raster_copy_with_mask

t_xsize, t_ysize)

File "C:\QGIS\apps\Python27\lib\site-packages\osgeo\gdal.py", line 2635, in ReadAsArray

from osgeo import gdalnumeric

File "C:\QGIS\apps\Python27\lib\site-packages\osgeo\gdalnumeric.py", line 2, in <module>

from osgeo.gdal_array import *

File "C:\QGIS\apps\Python27\lib\site-packages\osgeo\gdal_array.py", line 17, in <module>

_gdal_array = swig_import_helper()

File "C:\QGIS\apps\Python27\lib\site-packages\osgeo\gdal_array.py", line 16, in swig_import_helper

return importlib.import_module('_gdal_array')

File "C:\QGIS\apps\Python27\lib\importlib__init__.py", line 37, in import_module

__import__(name)

ImportError: No module named _gdal_array

Execution completed in 2.28 seconds

Results:

{'OUTPUT': <QgsProcessingOutputLayerDefinition

{'sink':C:/Users/corey/AppData/Local/Temp/processing_6399c68c009946eeb88963854255a4cd/1feb7c0f4e8542e8a6583730da4eebcb/OU
4eebcb/OUTPUT.tif, 'createOptions': {'fileEncoding': 'System'}}}>

Loading resulting layers

Algorithm 'Merge' finished

Related issues:

Duplicated by QGIS Application - Bug report # 20947: Merging DEM

Closed

2019-01-09

Duplicated by QGIS Application - Bug report # 20977: Merge Raster fails with ...

Closed

2019-01-11

Duplicated by QGIS Application - Bug report # 21075: Update to 3.4.3 via OSGe...

Closed

2019-01-23

History

#1 - 2018-12-31 08:32 AM - Gabriel De Luca

Can be solved by manually uninstalling the *numpy* module and reinstalling it:

- *Run as Administrator* the *OSGeo4W.bat* file, located at the *QGIS 3.4* folder (*C:\Program Files\QGIS 3.4* by default), that calls environment variables and opens a shell with administrator privileges (needed to make the changes effective for all users)
- run: `python -m pip uninstall numpy`, returns Successfully uninstalled numpy-1.12.1+mk1
- run: `python -m pip install numpy`, returns Successfully installed numpy-1.15.4
- close the shell and run the *Merge* function in QGIS again, it will work fine now.

#2 - 2018-12-31 12:51 PM - Alexander Bruy

- *Category changed from GDAL Tools to Build/Install*
- *Status changed from Open to Feedback*
- *Assignee deleted (Corey Rueckheim)*

This is not a QGIS issue, your installation of GDAL and related packages (namely numpy) is/was broken. Probably you have installed numpy separately and overwrite package that was included in the QGIS distribution.

#3 - 2018-12-31 03:20 PM - Giovanni Manghi

Alexander Bruy wrote:

This is not a QGIS issue, your installation of GDAL and related packages (namely numpy) is/was broken. Probably you have installed numpy separately and overwrite package that was included in the QGIS distribution.

agree

#4 - 2019-01-03 01:00 AM - Gabriel De Luca

Alexander Bruy wrote:

Probably you have installed numpy separately and overwrite package that was included in the QGIS distribution.

That's not my case.

The Merge tool fails after clean installations of QGIS Distributions <http://qgis.org/downloads/QGIS-OSGeo4W-3.4.3-1-Setup-x86.exe> and http://qgis.org/downloads/QGIS-OSGeo4W-3.4.3-1-Setup-x86_64.exe, on Windows 7 and Windows 10 machines.

The proposed solution is a post-installation manual solution to a failure found in the distribution.

#5 - 2019-01-03 02:50 AM - Nyal Dawson

This is an osgeo4w packaging issue - it needs filing at <https://trac.osgeo.org/osgeo4w/newticket>

#6 - 2019-01-05 07:34 AM - Gabriel De Luca

Nyall Dawson wrote:

This is an osgeo4w packaging issue - it needs filing at <https://trac.osgeo.org/osgeo4w/newticket>

Done, at <https://trac.osgeo.org/osgeo4w/ticket/588>.

#7 - 2019-01-06 03:13 PM - Jürgen Fischer

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

#8 - 2019-01-09 10:53 AM - Jürgen Fischer

- Duplicated by Bug report #20947: Merging DEM added

#9 - 2019-01-11 05:43 PM - Jürgen Fischer

- Duplicated by Bug report #20977: Merge Raster fails with ImportError: No module named _gdal_array added

#10 - 2019-01-23 10:54 AM - Jürgen Fischer

- Duplicated by Bug report #21075: Update to 3.4.3 via OSGeo4W gets wrong numpy added

#11 - 2019-01-23 10:18 PM - Loren Amelang

For anyone who updated QGIS via the OSGeo4W installer and is trying to fix this, as I was after #21075, it appears just using system-wide pip to update numpy does not help. OSGeo4W has its own numpy in its installation folder. (Strangely, that version was 1.12, not the 0xa shown in my error message. System-wide pip saw numpy 1.10... Whatever can that mean?) Run the OSGeo4W.bat file in the OSGeo4W folder *as Administrator*, and pip it from that console. You should see numpy 1.16 (as of 23jan19) in the OSGeo4W folder now. (It is possible my system-wide install was also necessary, no way to tell now, but it wasn't sufficient.)

#12 - 2019-01-24 11:05 AM - Jürgen Fischer

Loren Amelang wrote:

For anyone who updated QGIS via the OSGeo4W installer and is trying to fix this, as I was after #21075, it appears just using system-wide pip to update numpy does not help. OSGeo4W has its own numpy in its installation folder. (Strangely, that version was 1.12, not the 0xa shown in my error message. System-wide pip saw numpy 1.10... Whatever can that mean?) Run the OSGeo4W.bat file in the OSGeo4W folder as Administrator, and pip it from that console. You should see numpy 1.16 (as of 23jan19) in the OSGeo4W folder now. (It is possible my system-wide install was also necessary, no way to tell now, but it wasn't sufficient.)

OSGeo4W was already updated.

#13 - 2019-01-27 08:55 PM - Jürgen Fischer

- Description updated