

QGIS Application - Bug report #19073

QGIS3.0.x GRASS PATH problem: "ERROR: Path '/<UNKNOWN>/<UNKNOWN>' doesn't exist"

2018-05-31 05:50 PM - Garth Fletcher

Status:	Open	
Priority:	Normal	
Assignee:		
Category:	Processing/GRASS	
Affected QGIS version:	3.0.3	Regression?: No
Operating System:	Mac OS X 10.12.6	Easy fix?: Yes
Pull Request or Patch supplied:	No	Resolution:
Crashes QGIS or corrupts data:	No	Copied to github as #: 26903
Description		
QGIS3.0.3 : GRASS i.segment (and many others) fail with "ERROR: Path '/<UNKNOWN>/<UNKNOWN>' doesn't exist" message. To simplify things I tested in a new Project which contained only the one raster layer. Same failure occurs in all variations tested: - output to temporary files - output to specified files - skipped Goodness output No output files are created. Example Log Messages results (formatted for legibility): <pre>2018-05-31T10:55:07 INFO GRASS GIS 7 execution commands g.proj -c proj4="+proj=tmerc +lat_0=42.5 +lon_0=-71.66666666666667 +k=0.999966667 +x_0=300000.0000000001 +y_0=0 +ellps=GRS80 +towgs84=0,0,0,0,0,0 +units=us-ft +no_defs" r.external input="/Users/garthfletcher/QGIS_TEST/DEM_Lidar/DEM_Lid_all_tiles.tif" band=1 output="rast_5b100ccb100772" --overwrite -o g.region n=116928.0 s=67410.0 e=981480.0 w=934950.0 res=6.0 i.group group=group_5b100ccb10edd3 input=rast_5b100ccb100772 i.segment threshold=0.01 method="region_growing" similarity="euclidean" minsize=1000 memory=300 iterations=20 group="group_5b100ccb10edd3" output=output95fb91ab62bf4f47b0e06a8d8f666930 goodness=goodness95fb91ab62bf4f47b0e06a8d8f666930 --overwrite g.region raster=output95fb91ab62bf4f47b0e06a8d8f666930 r.out.gdal -t -m input="output95fb91ab62bf4f47b0e06a8d8f666930" output="/Users/garthfletcher/QGIS_TEST/DEM_Lidar/Segmented.tif" format="GTiff" createopt="TFW=YES,COMPRESS=LZW" --overwrite g.region raster=goodness95fb91ab62bf4f47b0e06a8d8f666930 r.out.gdal -t -m input="goodness95fb91ab62bf4f47b0e06a8d8f666930" output="/Users/garthfletcher/QGIS_TEST/DEM_Lidar/Goodness.tif" format="GTiff" createopt="TFW=YES,COMPRESS=LZW" --overwrite</pre> 2018-05-31T10:55:07 INFO GRASS GIS 7 execution console output <pre>WARNING: Default locale settings are missing. GRASS running with C locale. Starting GRASS GIS... ERROR: Path '/<UNKNOWN>/<UNKNOWN>' doesn't exist Default locale not found, using UTF-8 Exiting...</pre>		

Marked as "Easy fix" because I think (hope) it should be.

History

#1 - 2018-05-31 10:05 PM - Garth Fletcher

To further characterize the issue I checked many other GRASS Imagery and Raster tools which seemed to be appropriate for a single DEM raster layer.

Every single one I tested failed with the same "ERROR: Path '/<UNKNOWN>/<UNKNOWN>' doesn't exist" message.

The GRASS tools tested included:

Imagery (i.*)

i.fft, i.zc

Raster (r.*)

r.buffer, r.buffer.lowmem, r.clump, r.contour, r.drain, r.fill.dir, r.flow, r.grow, r.info, r.relief, r.report, r.shade, r.slope.aspect, r.stats, r.stream.extract, r.surf.contour, r.watershed

Clearly seems to be a systematic issue with how QGIS sets up the calling environment for GRASS...

#2 - 2018-06-04 08:03 AM - Ronan L

- File Capture d'écran 2018-06-04 à 07.58.00.png added

Garth Fletcher wrote:

To further characterize the issue I checked many other GRASS Imagery and Raster tools which seemed to be appropriate for a single DEM raster layer.

Every single one I tested failed with the same "ERROR: Path '/<UNKNOWN>/<UNKNOWN>' doesn't exist" message.

The GRASS tools tested included:

Imagery (i.)*

i.fft, i.zc

Raster (r.)*

r.buffer, r.buffer.lowmem, r.clump, r.contour, r.drain, r.fill.dir, r.flow, r.grow, r.info, r.relief, r.report, r.shade, r.slope.aspect, r.stats, r.stream.extract, r.surf.contour, r.watershed

Clearly seems to be a systematic issue with how QGIS sets up the calling environment for GRASS...

I'm not sure it is an "Easy Fix" I already reported that <https://issues.qgis.org/issues/18992>

I added 3 environment variables in QGIS/Preferences/Systems:

LC_ALL=fr_FR.UTF_8

TERM=xterm

PATH=/Applications/QGIS3.app/Contents/MacOS/grass:/Applications/QGIS3.app/Contents/MacOS/grass/bin:/Applications/QGIS3.app/Contents/MacO

/grass/scripts/Library/Frameworks/GDAL.framework/Programs/Library/Frameworks/Python.framework/Versions/3.6/bin:/usr/local/bin:/usr/bin:/bin:/usr/sbin:/sbin:/c

in:/sbin:/opt/X11/bin:/Library/Frameworks/Mono.framework/Versions/Current/Commands

I tried also created the missing path by entering in a terminal:

sudo mkdir -p '/<UNKNOWN>/<UNKNOWN>'

sudo chown -R Ronan ^/<UNKNOWN>\>

It removes all the error but GRASS still does not work...

#3 - 2018-07-03 07:40 PM - Dewey Dunnington

Definitely still an issue in 3.2 (Mac OSX 10.13.4).

#4 - 2019-01-29 08:54 AM - Loïc BARTOLETTI

- Status changed from Open to Feedback

I just tested r.buffer (and others) with QGIS 3.4.3 and Grass 7.4.4 (macOS Mojave) and I have no errors. Can you confirm your problem?

#5 - 2019-01-29 04:57 PM - Garth Fletcher

- Status changed from Feedback to Open

Tested using r.contour

QGIS 3.4.3 - FAILS

QGIS 3.4.4 - FAILS

However, QGIS 3.2.2 - WORKS

```
=====
Environment=====
Mac OS X 10.12.6 (Sierra)
```

project & data location:

```
/Users/garthfletcher/_QGIS_DEBUG/19073/
  19073.qgs
  DEM_Clip_feet_Real.tif
  DEM_Clip_feet_Real.tif.aux.xml
```

layer info:

```
Name  NED_Clip_Ft_3614
Path  /Users/garthfletcher/_QGIS_DEBUG/19073/DEM_Clip_feet_Real.tif
CRS    EPSG:3614 - NAD83 / New Hampshire (ftUS) - Projected
Extent -72.0005555551940688,41.9994444445064232 : -70.9994444448046238,43.0005555548958682
Unit   feet
Width  10812
Height 10812
Data type  Float32 - Thirty two bit floating point
GDAL Driver Description  GTiff
GDAL Driver Metadata    GeoTIFF
Dataset Description    /Users/garthfletcher/_QGIS_DEBUG/19073/DEM_Clip_feet_Real.tif
```

```
=====
QGIS 3.4.3 {QGIS-macOS-3.4.3-1.dmg}=====
QGIS version      3.4.3-Madeira
QGIS code branch   Release 3.4
Compiled against Qt 5.11.2
```

Running against Qt 5.11.2
Compiled against GDAL/OGR 2.3.2
Running against GDAL/OGR 2.3.3
Compiled against GEOS 3.7.0-CAPI-1.11.0
Running against GEOS 3.7.1-CAPI-1.11.1 27a5e771
PostgreSQL Client Version 9.6.10
SpatiaLite Version 4.4.0-RC1
QWT Version 6.1.3
QScintilla2 Version 2.10.8
PROJ.4 Version 493

r.contour

2019-01-29T10:25:59 INFO GRASS GIS 7 execution commands

```
g.proj -c proj4="+proj=tmerc +lat_0=42.5 +lon_0=-71.66666666666667 +k=0.999966667 +x_0=300000.0000000001 +y_0=0 +ellps=GRS80
+towgs84=0,0,0,0,0,0 +units=us-ft +no_defs"
r.external input="/Users/garthfletcher/_QGIS_DEBUG/19073/DEM_Clip_feet_Real.tif" band=1 output="rast_5c507086f23043" --overwrite -o
g.region n=43.00055555489587 s=41.99944444450642 e=-70.99944444480462 w=-72.00055555519407 res=9.259259252584582e-05
r.contour input=rast_5c507086f23043 step=10 cut=0 output=output28b818f9c2bd4190ae5ba8c9822b7554 --overwrite
v.out.ogr -c type="auto" input="output28b818f9c2bd4190ae5ba8c9822b7554"
output="/var/folders/h5/bjhn4xs6x37xt_2m6x2nkbm0000gp/T/processing_459afd8822914dd482e153f7180badbd/758918b4f6694fcfa76bd14bb13489ac/output.g
c/output.gpkg" format="GPKG" --overwrite
```

2019-01-29T10:26:00 INFO GRASS GIS 7 execution console output

WARNING: Default locale settings are missing. GRASS running with C locale.

Default locale not found, using UTF-8

Traceback (most recent call last):

File "/Applications/QGIS_3_4_3-1.app/Contents/MacOS/grass/grass74", line 2029, in
main()

File "/Applications/QGIS_3_4_3-1.app/Contents/MacOS/grass/grass74", line 1880, in main

set_paths(grass_config_dir=grass_config_dir)

File "/Applications/QGIS_3_4_3-1.app/Contents/MacOS/grass/grass74", line 622, in set_paths
os.environ['MANPATH'] = sys_man_path

File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/os.py", line 674, in *setitem*
value = self.encodevalue(value)

File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/os.py", line 744, in encode
raise TypeError("str expected, not %s" % type(value).__name__)

TypeError: str expected, not bytes

WARNING: Default locale settings are missing. GRASS running with C locale.

Default locale not found, using UTF-8

Traceback (most recent call last):

File "/Applications/QGIS_3_4_3-1.app/Contents/MacOS/grass/grass74", line 2029, in
main()

File "/Applications/QGIS_3_4_3-1.app/Contents/MacOS/grass/grass74", line 1880, in main

set_paths(grass_config_dir=grass_config_dir)

File "/Applications/QGIS_3_4_3-1.app/Contents/MacOS/grass/grass74", line 622, in set_paths
os.environ['MANPATH'] = sys_man_path

File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/os.py", line 674, in *setitem*
value = self.encodevalue(value)

File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/os.py", line 744, in encode
raise TypeError("str expected, not %s" % type(value).__name__)

TypeError: str expected, not bytes

=====

QGIS 3.4.4 {QGIS-macOS-3.4.4-2.dmg}=====

r.contour

2019-01-29T10:30:54 INFO GRASS GIS 7 execution commands

```
g.proj -c proj4="+proj=tmerc +lat_0=42.5 +lon_0=-71.6666666666667 +k=0.999966667 +x_0=300000.0000000001 +y_0=0 +ellps=GRS80
+towgs84=0,0,0,0,0,0,0 +units=us-ft +no_defs"
r.external input="/Users/garthfletcher/_QGIS_DEBUG/19073/DEM_Clip_feet_Real.tif" band=1 output="rast_5c5071addc3b92" --overwrite -o
g.region n=43.00055555489587 s=41.99944444450642 e=-70.99944444480462 w=-72.00055555519407 res=9.259259252584582e-05
r.contour input=rast_5c5071addc3b92 step=10 cut=0 output=output9279ebf267434000a9b9c4e376e6fc34 --overwrite
v.out.ogr -c type="auto" input="output9279ebf267434000a9b9c4e376e6fc34"
output="/var/folders/h5/bjhn4xs6x37xt_2m6x2nkbm0000gp/T/processing_dcea3eb2a1194b6f8f457c9b1a00d2fa/b8c50846e5344acfa8c1443a1b10617e/output.g
e/output.gpkg" format="GPKG" --overwrite
```

2019-01-29T10:30:55 INFO GRASS GIS 7 execution console output

WARNING: Default locale settings are missing. GRASS running with C locale.

Default locale not found, using UTF-8

Traceback (most recent call last):

File "/Applications/QGIS_3_4_4-2.app/Contents/MacOS/grass/grass74", line 2029, in
main()

File "/Applications/QGIS_3_4_4-2.app/Contents/MacOS/grass/grass74", line 1880, in main
set_paths(grass_config_dir=grass_config_dir)

File "/Applications/QGIS_3_4_4-2.app/Contents/MacOS/grass/grass74", line 622, in set_paths
os.environ['MANPATH'] = sys_man_path

File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/os.py", line 674, in *setitem*
value = self.encodevalue(value)

File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/os.py", line 744, in encode
raise TypeError("str expected, not %s" % type(value).__name__)

TypeError: str expected, not bytes

WARNING: Default locale settings are missing. GRASS running with C locale.

Default locale not found, using UTF-8

Traceback (most recent call last):

File "/Applications/QGIS_3_4_4-2.app/Contents/MacOS/grass/grass74", line 2029, in
main()

File "/Applications/QGIS_3_4_4-2.app/Contents/MacOS/grass/grass74", line 1880, in main
set_paths(grass_config_dir=grass_config_dir)

File "/Applications/QGIS_3_4_4-2.app/Contents/MacOS/grass/grass74", line 622, in set_paths
os.environ['MANPATH'] = sys_man_path

File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/os.py", line 674, in *setitem*
value = self.encodevalue(value)

File "/Library/Frameworks/Python.framework/Versions/3.6/lib/python3.6/os.py", line 744, in encode
raise TypeError("str expected, not %s" % type(value).__name__)

TypeError: str expected, not bytes

=====

QGIS 3.2.2 {QGIS-macOS-3.2.1-1.dmg}=====

QGIS version	3.2.2-Bonn
QGIS code branch	Release 3.2
Compiled against Qt	5.9.6
Running against Qt	5.9.6
Compiled against GDAL/OGR	2.2.4

Running against GDAL/OGR 2.2.4
Compiled against GEOS 3.6.2-CAPI-1.10.2
Running against GEOS 3.7.1-CAPI-1.11.1 27a5e771
PostgreSQL Client Version 9.6.6
SpatiaLite Version 4.4.0-RC1
QWT Version 6.1.3
QScintilla2 Version 2.10.7
PROJ.4 Version 493

r.contour

NOTE: could not use 10' increments parameter because of bug {always requires
listed intervals), so used levels list of 100,200,300,...1000,1100.
Runs perfectly, creates contour layer

2019-01-29T10:47:22 INFO GRASS GIS 7 execution commands

```
g.proj -c proj4="+proj=tmerc +lat_0=42.5 +lon_0=-71.66666666666667 +k=0.999966667 +x_0=300000.0000000001 +y_0=0 +ellps=GRS80  
+towgs84=0,0,0,0,0,0 +units=us-ft +no_defs"  
r.external input="/Users/garthfletcher/_QGIS_DEBUG/19073/DEM_Clip_feet_Real.tif" band=1 output="rast_5c507589e372a3" --overwrite -o  
g.region n=43.00055555489587 s=41.99944444450642 e=-70.99944444480462 w=-72.00055555519407 res=9.259259252584582e-05  
r.contour input=rast_5c507589e372a3 levels="100,200,300,400,500,600,700,800,900,1000,1100" cut=0  
output=output2810dd43b6594ffea99e5b82135a3210 --overwrite  
v.out.ogr -c type="auto" input="output2810dd43b6594ffea99e5b82135a3210"  
output="/var/folders/h5/bjhn4xs6x37xt_2m6x2nkbm0000gp/T/processing_f8e02470e9554a2b844d087c850b1aa4/093bde2c618a4bfea46fa86f5fc0e144/output.s  
/output.shp" format="ESRI_Shapefile" --overwrite
```

2019-01-29T10:47:46 INFO GRASS GIS 7 execution console output

```
WARNING: Default locale settings are missing. GRASS running with C locale.  
Starting GRASS GIS...  
Executing ...  
Default region was updated to the new projection, but if you have multiple mapsets `g.region -d` should be run in each to update the region from the  
default  
Projection information updated  
WARNING: Over-riding projection check  
Reading band 1 of 1...  
r.external complete. Link to raster map created.  
Reading data...  
2..5..8..11..14..17..20..23..26..29..32..35..38..41..44..47..50..53..56..59..62..65..68..71..74..77..80..83..86..89..92..95..98..100  
Displacing data...  
2..5..8..11..14..17..20..23..26..29..32..35..38..41..44..47..50..53..56..59..62..65..68..71..74..77..80..83..86..89..92..95..98..100  
Writing vector contours (total levels 9)...  
11..22..33..44..55..66..77..88..100  
WARNING: 146 crossings found  
Writing attributes...  
Building topology for vector map ...  
Registering primitives...  
912 primitives registered  
422588 vertices registered  
Building areas...  
0..2..4..6..8..10..12..14..16..18..20..22..24..26..28..30..32..34..36..38..40..42..44..46..48..50..52..54..56..58..60..62..64..66..68..70..72..74..76..78..8  
..82..84..86..88..90..92..94..96..98..100  
0 areas built  
0 isles built
```

```

Attaching islands...
Attaching centroids...
1..3..5..7..9..11..13..15..17..19..21..23..25..27..29..31..33..35..37..39..41..43..45..47..49..51..53..55..57..59..61..63..65..67..69..71..73..75..77..79..8
..83..85..87..89..91..93..95..97..99..100
Number of nodes: 912
Number of primitives: 912
Number of points: 0
Number of lines: 912
Number of boundaries: 0
Number of centroids: 0
Number of areas: 0
Number of isles: 0
Exporting 912 features...
5..11..17..23..29..35..41..47..53..59..65..71..77..83..89..95..100
v.out.ogr complete. 912 features (Line String type) written to (ESRI_Shapefile format).
Execution of finished.
Cleaning up temporary files...
Default locale not found, using UTF-8

```

#6 - 2019-01-29 06:01 PM - Garth Fletcher

Did fresh install on a Mojave system
r.contour fails here too.

```

=====
Mac OS X 10.14.2 (Mojave)=====
QGIS nstalled using
  python-3.6.8-macosx10.9.pkg
  QGIS-macOS-3.4.4-2.dmg, Python

QGIS version      3.4.3-Madeira
QGIS code revision 2f64a3c4e7
Compiled against Qt 5.12.0
Running against Qt 5.12.0
Compiled against GDAL/OGR 2.3.2
Running against GDAL/OGR 2.3.2
Compiled against GEOS 3.7.1-CAPI-1.11.1
Running against GEOS 3.7.1-CAPI-1.11.1 27a5e771
PostgreSQL Client Version 11.1
SpatiaLite Version 4.3.0a
QWT Version       6.1.3
QScintilla2 Version 2.10.4
Compiled against PROJ 520
Running against PROJ 5.2.0

```

```

-----
r.contour
-----

```

```

2019-01-29T11:45:13 INFO GRASS GIS 7 execution commands
g.proj -c proj4="+proj=tmerc +lat_0=42.5 +lon_0=-71.6666666666667 +k=0.999966667 +x_0=300000.0000000001 +y_0=0 +ellps=GRS80
+towgs84=0,0,0,0,0,0 +units=us-ft +no_defs"

```

```
r.external input="/Users/garth/_QGIS_DEBUG/19073/DEM_Clip_feet_Real.tif" band=1 output="rast_5c508319051662" --overwrite -o
g.region n=43.00055555489587 s=41.99944444450642 e=-70.99944444480462 w=-72.00055555519407 res=9.259259252584582e-05
r.contour input=rast_5c508319051662 step=10 cut=0 output=output00ae4260d3ae4245b7e47271b4b00e7b --overwrite
v.out.ogr -c type="auto" input="output00ae4260d3ae4245b7e47271b4b00e7b"
output="/private/var/folders/p6/rpylzgrn58351tnnnvmdkgz40000gn/T/processing_261a176dc9074e7099be2a670a13c90a/da65922f7dca42d8ae17eb362ae486fb
ae486fb/output.gpkg" format="GPKG" --overwrite
2019-01-29T11:45:13 INFO GRASS GIS 7 execution console output
/Applications/QGIS3.4.3.app/Contents/Resources/grass7/bin/grass74: line 5: /usr/local/Cellar/grass7/7.4.3_3/libexec/bin/grass74: No such file or
directory
/Applications/QGIS3.4.3.app/Contents/Resources/grass7/bin/grass74: line 5: exec: /usr/local/Cellar/grass7/7.4.3_3/libexec/bin/grass74: cannot
execute: No such file or directory
/Applications/QGIS3.4.3.app/Contents/Resources/grass7/bin/grass74: line 5: /usr/local/Cellar/grass7/7.4.3_3/libexec/bin/grass74: No such file or
directory
/Applications/QGIS3.4.3.app/Contents/Resources/grass7/bin/grass74: line 5: exec: /usr/local/Cellar/grass7/7.4.3_3/libexec/bin/grass74:
cannot execute: No such file or directory
```

Files			
Capture d'écran 2018-06-04 à 07.58.00.png	1.07 MB	2018-06-04	Ronan L