QGIS Application - Bug report #19494
Named outputs from raster algorithms fail when used as inputs in processing models

2018-07-26 11:43 AM - Rudi von Staden

Status:	Closed		
Priority:	High		
Assignee:	Luigi Pirelli		
Category:	Processing/Core		
Affected QGIS version:	3.3(master)	**Regression?:**	Yes
Operating System:	Windows 10	**Easy fix?:**	No
Pull Request or Patch supplied:	No	**Resolution:**	
Crashes QGIS or corrupts data:	No	**Copied to github as #:**	27322

Description

Bug report #19372 was similar, but the scope of the example was a vector algorithm, and the resolution worked for vectors. The attached model takes an input raster, runs gdal_calc on layer A, with a simple expression 'A' (output should equal input) with a named output, which it passes that to gdal_calc again. The second iteration of gdal_calc fails, because it can't find the input.

Tested on nightly 1ac5e29da6.

The algorithm log is as follows (the issue being INPUT_A: '' for the second algorithm):

Processing algorithm…
Algorithm 'polygonize from named output' starting…
Input parameters:{ 'gdal:rastercalculator_2:named raster' :
*'C:/Users/rudi_000/AppData/Local/Temp/processing_5604e667e782439e8f8517c3a2008540/89af213244d44313ae4bdf7acda5b694/gdal_*
4/gdal_rastercalculator_2_named raster.tif', 'gdal:rastercalculator_3:result' :
'C:/Users/rudi_000/AppData/Local/Temp/processing_5604e667e782439e8f8517c3a2008540/86ad966eb2204e9390a67e0fd2fa31f5/gdal_r
5/gdal_rastercalculator_3_result.tif', 'raster' :
'C:/Users/rudi_000/Downloads/named_output_used_as_input_test/named_output_used_as_input_test/dem.tif' }

Prepare algorithm: gdal:rastercalculator_2
Running named output [1/2]
Input Parameters:{ BAND_A: 1, BAND_B: None, BAND_C: None, BAND_D: None, BAND_E: None, BAND_F: None, EXTRA: '', FORMULA: 'A', INPUT_A:
'C:/Users/rudi_000/Downloads/named_output_used_as_input_test/named_output_used_as_input_test/dem.tif', INPUT_B: None, INPUT_C: None, INPUT_D: None, INPUT_E: None, INPUT_F: None, NO_DATA: -9999, OPTIONS: '', OUTPUT:
*'C:/Users/rudi_000/AppData/Local/Temp/processing_5604e667e782439e8f8517c3a2008540/89af213244d44313ae4bdf7acda5b694/gdal_*
4/gdal_rastercalculator_2_named raster.tif', RTYPE: 1 }
GDAL command:
gdal_calc --calc "A" --format GTiff --type Int16 --NoDataValue -9999.0 -A
C:/Users/rudi_000/Downloads/named_output_used_as_input_test/named_output_used_as_input_test/dem.tif --A_band 1 --outfile
*"C:/Users/rudi_000/AppData/Local/Temp/processing_5604e667e782439e8f8517c3a2008540/89af213244d44313ae4bdf7acda5b694/gdal_*
94/gdal_rastercalculator_2_named raster.tif"
GDAL command output:
0 .. 10 .. 20 .. 30 .. 40 .. 50 .. 60 .. 70 .. 80 .. 90 .. 100 - Done

OK. Execution took 4.981 s (1 outputs).
Prepare algorithm: gdal:rastercalculator_3
Running Raster calculator [2/2]
*Input Parameters:{ BAND_A: 1, BAND_B: None, BAND_C: None, BAND_D: None, BAND_E: None, BAND_F: None, EXTRA: '', FORMULA: 'A*2', INPUT_A: '', INPUT_B: None, INPUT_C: None, INPUT_D: None, INPUT_E: None, INPUT_F: None, NO_DATA: -9999, OPTIONS: '', OUTPUT:*

'C:/Users/rudi_000/AppData/Local/Temp/processing_5604e667e782439e8f8517c3a2008540/86ad966eb2204e9390a67e0fd2fa31f5/gdal_r
5/gdal_rastercalculator_3_result.tif', RTYPE: 1 }
Traceback (most recent call last):
File "C:/OSGEO4~1/apps/qgis-dev/./python/plugins\processing\algs\gdal\GdalAlgorithm.py", line 119, in processAlgorithm
commands = self.getConsoleCommands(parameters, context, feedback, executing=True)
File "C:/OSGEO4~1/apps/qgis-dev/./python/plugins\processing\algs\gdal\gdalcalc.py", line 219, in getConsoleCommands
raise QgsProcessingException(self.invalidRasterError(parameters, self.INPUT_A))
_core.QgsProcessingException: Could not load source layer for INPUT_A: invalid value

Error encountered while running Raster calculator
Error encountered while running Raster calculator
Execution failed after 5.48 seconds

Loading resulting layers
The following layers were not correctly
*generated.
C:/Users/rudi_000/AppData/Local/Temp/processing_5604e667e782439e8f8517c3a2008540/86ad966eb2204e9390a67*
*390a67e0fd2fa31f5/gdal_rastercalculator_3_result.tif
You can check the 'Log Messages Panel' in QGIS main window to*
find more information about the execution of the algorithm.

History

#1 - 2018-07-26 11:51 AM - Rudi von Staden

I should have mentioned that I have tested this on a few algorithms that take raster inputs, and all seem to fail when the input is the named output of an earlier algorithm. The attached project folder contains sample data and models which demonstrate the issue. The simplest model is `raster_calc_from_named_output.model3`.

#2 - 2018-07-30 11:04 AM - Jürgen Fischer

- Description updated

#3 - 2018-09-15 11:02 AM - Rudi von Staden

- Assignee set to Luigi Pirelli
- Status changed from Open to Closed

Fixed in commit:2a19a1d655f480742d555f4a009912a0b4b765fd.

Files

named_output_used_as_input_test.zip	160 KB	2018-07-26	Rudi von Staden