

QGIS Application - Bug report #16408

Problem with SAGA 2.3.1 io_gdal not loaded

2017-04-03 06:48 AM - Pedro Venâncio

Status:	Closed	
Priority:	Severe/Regression	
Assignee:	Alexander Bruy	
Category:	Processing/SAGA	
Affected QGIS version:	2.18.4	Regression?: No
Operating System:	Windows	Easy fix?: No
Pull Request or Patch supplied:	No	Resolution: duplicate
Crashes QGIS or corrupts data:	No	Copied to github as #: 24317
Description		
For some reason, SAGA 2.3.1 io_gdal module is not loaded (both on QGIS 2.18.5 and QGIS 3), and Processing SAGA algs does not work. Some examples: Algorithm Analytical hillshading starting... <pre>io_gdal 0 -TRANSFORM -RESAMPLING 0 -GRIDS "C:\Users\pedro\AppData\Local\Temp\processing46ff5fe735164762bc9e9e7d97c6ff24\22daff45a6834eae2d0d54b4d822115\SRTMPT25mclip.sgrd" -FILES "D:/SIG/MDT/SRTM_25m_JAG/SRTM_PT_25m_clip.tif" ta_lighting "Analytical Hillshading" -ELEVATION "C:\Users\pedro\AppData\Local\Temp\processing46ff5fe735164762bc9e9e7d97c6ff24\22daff45a6834eae2d0d54b4d822115\SRTMPT25mclip.sgrd" -METHOD 0 -AZIMUTH 315 -DECLINATION 45 -EXAGGERATION 4 -SHADE "C:\Users\pedro\AppData\Local\Temp\processing46ff5fe735164762bc9e9e7d97c6ff24\6038b3b345b64815bcb23e835ec164b\SHADE.sdat" 64b\SHADE.sdat"</pre> <pre>C:\OSGeo4W64\bin>set SAGA=C:/saga_2.3.1_x64</pre> <pre>C:\OSGeo4W64\bin>set SAGA_MLB=C:/saga_2.3.1_x64\modules</pre> <pre>C:\OSGeo4W64\bin>PATH=C:\OSGeo4~1\apps\Python36\lib\site-packages\ umpy\core;C:\OSGeo4~1\apps\qgis-dev\bin;C:\OSGeo4~1\apps\grass\grass-7.2.0\lib;C:\OSGeo4~1\apps\grass\grass-7.2.0\bin;C:\OSGeo4~1\apps\Python36;C:\OSGeo4~1\apps\Python36\Scripts;C:\OSGeo4~1\apps\qt5\bin;C:\OSGeo4~1\apps\F 4~1\apps\Python27\Scripts;C:\OSGeo4~1\bin;C:\WINDOWS\system32;C:\WINDOWS;C:\WINDOWS\WBem;C:\OSGeo4~1\apps\m ~1\apps\msys\bin;C:/saga_2.3.1_x64;C:/saga_2.3.1_x64\modules</pre> <pre>C:\OSGeo4W64\bin>saga_cmd io_gdal 0 -TRANSFORM -RESAMPLING 0 -GRIDS "C:\Users\pedro\AppData\Local\Temp\processing46ff5fe735164762bc9e9e7d97c6ff24\22daff45a6834eae2d0d54b4d822115\SRTMPT25mclip.sgrd" -FILES "D:/SIG/MDT/SRTM_25m_JAG/SRTM_PT_25m_clip.tif"</pre> <pre>##### ## ##### ## ### ### ## ### ### # ## ## ##### # ## ### ##### ## # ##### ##### # ## ##### # ##</pre> SAGA Version: 2.3.1 (64 bit) 77 loaded tool libraries (670 tools): - climate		

- climate_tools
- contrib_perego
- db_odbc
- db_pgsq1
- docs_html
- docs_pdf
- garden_3d_viewer
- garden_fractals
- garden_games
- garden_learn_to_program
- garden_webservices
- grid_analysis
- grid_calculus
- grid_calculus_bsl
- grid_filter
- grid_gridding
- grid_spline
- grid_tools
- grid_visualisation
- imagery
- imagery_classification
- imagery_isocluster
- imagery_maxent
- imagery_opencv
- imagery_photogrammetry
- imagery_segmentation
- imagery_svm
- imagery_tools
- imagery_vigra
- io_esri_e00
- io_gps
- io_grid
- io_grid_image
- io_shapes
- io_shapes_dxf
- io_shapes_las
- io_table
- io_virtual
- pj_georeference
- pj_geotrans
- pj_proj4
- pointcloud_tools
- pointcloud_viewer
- shapes_grid
- shapes_lines
- shapes_points
- shapes_polygons
- shapes_tools
- shapes_transect
- sim_cellular_automata
- sim_ecosystems_hugget
- sim_erosion
- sim_fire_spreading

- sim_hydrology
- sim_ihacres
- sim_qm_of_esp
- sim_rivflow
- statistics_grid
- statistics_kriging
- statistics_points
- statistics_regression
- ta_channels
- ta_compound
- ta_hydrology
- ta_lighting
- ta_morphometry
- ta_preprocessor
- ta_profiles
- ta_slope_stability
- table_calculus
- table_tools
- terrain_analysis
- tin_tools
- tin_viewer
- toolchains
- tta_tools

type -h or --help for further information

Error: select a library

C:\OSGeo4W64\bin>saga_cmd ta_lighting "Analytical Hillshading" -ELEVATION

"C:\Users\pedro\AppData\Local\Temp\processing46ff5fe735164762bc9e9e7d97c6ff24\22daff45a6834eaeb2d0d54b4d822115\SRTMP
15\SRTMPT25mclip.sgrd" -METHOD 0 -AZIMUTH 315 -DECLINATION 45 -EXAGGERATION 4 -SHADE

"C:\Users\pedro\AppData\Local\Temp\processing46ff5fe735164762bc9e9e7d97c6ff24\6038b3b345b64815bcb23e835ec164b\SHAD
64b\SHADE.sdat"

```
##### ## ##### ##
### ### ## ###
### # ## ## ##### # ##
### ##### ## # #####
##### # ## ##### # ##
```

SAGA Version: 2.3.1 (64 bit)

library path: C:\saga_2.3.1_x64\modules\
library name: ta_lighting
library : Lighting, Visibility
tool : Analytical Hillshading
author : O.Conrad, V.Wichmann (c) 2003-2013
processors : 4 [4]

Load grid:

C:\\Users\\pedro\\AppData\\Local\\Temp\\processing46ff5fe735164762bc9e9e7d97c6ff24\\22daff45a6834eaeb2d0d54b4d822115\\SRTMP
15\\SRTMPT25mclip.sgrd...

failed

Usage: saga_cmd ta_lighting 0 [-ELEVATION] [-SHADE] [-METHOD] [-AZIMUTH] [-DECLINATION] [-EXAGGERATION]
[-SHADOW] [-NDIRS] [-RADIUS]

-ELEVATION: Elevation

Grid (input)

-SHADE: Analytical Hillshading

Grid (output)

-METHOD: Shading Method

Choice

Available Choices:

[0] Standard

[1] Standard (max. 90Degree)

[2] Combined Shading

[3] Ray Tracing

[4] Ambient Occlusion

Default: 0

-AZIMUTH: Azimuth [Degree]

Floating point

Default: 315.000000

-DECLINATION: Height [Degree]

Floating point

Default: 45.000000

-EXAGGERATION: Exaggeration

Floating point

Default: 4.000000

-SHADOW: Shadow

Choice

Available Choices:

[0] slim

[1] fat

Default: 1

-NDIRS: Number of Directions

Integer

Minimum: 2

Default: 8

-RADIUS: Search Radius

Floating point

Minimum: 0.001000

Default: 10.000000

Error: input file

[C:\\Users\\pedro\\AppData\\Local\\Temp\\processing46ff5fe735164762bc9e9e7d97c6ff24\\22daff45a6834eaeb2d0d54b4d822115\\SRTMP
15\\SRTMPT25mclip.sgrd]

Error: Elevation

C:\\OSGeo4W64\\bin>exit

Converting outputs

'NoneType' object has no attribute 'crs' See log for more details

2017-04-03T11:30:03 0 SAGA execution commands

io_gdal 0 -TRANSFORM 1 -RESAMPLING 0 -GRIDS

"C:\\Users\\pedro\\AppData\\Local\\Temp\\processing8edb67c56c2f40fdbdb571c8abd10840\\f85d24e433ae4d70a0f056249cd78bbd\\bacias
8bbd\\baciaslee2014201817Binarytiff.sgrd" -FILES

"D:/SIG/CRIF2010/POM_2017/LEE_2017/bacias_lee_2014_2018_17_Binary.tiff"

grid_calculus "Grid Calculator" -GRIDS

"C:\\Users\\pedro\\AppData\\Local\\Temp\\processing8edb67c56c2f40fdbdb571c8abd10840\\f85d24e433ae4d70a0f056249cd78bbd\\bacias
8bbd\\baciaslee2014201817Binarytiff.sgrd" -FORMULA "int(a)" -USE_NODATA false -TYPE 5 -RESULT

"C:\\Users\\pedro\\AppData\\Local\\Temp\\processing8edb67c56c2f40fdbdb571c8abd10840\\0a6500bac81a4dd3ba613aba5777b8ce\\RES
7b8ce\\RESULT.sdat"

2017-04-03T11:30:18 0 SAGA execution console output

C:\\OSGeo4W64\\bin>set SAGA=C:\\saga_2.3.1_x64

C:\\OSGeo4W64\\bin>set SAGA_MLB=C:\\saga_2.3.1_x64\\modules

C:\\OSGeo4W64\\bin>PATH=C:\\OSGEO4~1\\apps\\Python27\\lib\\site-packages\\Shapely-1.2.18-py2.7-win-amd64.egg\\shapely\\DLLs;C:\\
y\\DLLs;C:\\OSGEO4~1\\apps\\Python27\\DLLs;C:\\OSGEO4~1\\apps\\Python27\\lib\\site-packages\\
umpy\\core;C:\\OSGEO4~1\\apps\\qgis-rel-dev\\bin;C:\\OSGEO4~1\\apps\\grass\\grass-7.2.0\\lib;C:\\OSGEO4~1\\apps\\grass\\grass-7.2.0\\b
ass-7.2.0\\bin;C:\\OSGEO4~1\\apps\\Python27\\Scripts;C:\\OSGEO4~1\\bin;C:\\WINDOWS\\system32;C:\\WINDOWS;C:\\WINDOWS\\WBem
WS\\WBem;C:\\OSGEO4~1\\apps\\msys\\bin;C:\\saga_2.3.1_x64;C:\\saga_2.3.1_x64\\modules

C:\\OSGeo4W64\\bin>saga_cmd io_gdal 0 -TRANSFORM 1 -RESAMPLING 0 -GRIDS

"C:\\Users\\pedro\\AppData\\Local\\Temp\\processing8edb67c56c2f40fdbdb571c8abd10840\\f85d24e433ae4d70a0f056249cd78bbd\\bacias
8bbd\\baciaslee2014201817Binarytiff.sgrd" -FILES

"D:/SIG/CRIF2010/POM_2017/LEE_2017/bacias_lee_2014_2018_17_Binary.tiff"

##

SAGA Version: 2.3.1 (64 bit)

77 loaded tool libraries (670 tools):

- climate
- climate_tools
- contrib_perego
- db_odbc
- db_pgsq
- docs_html
- docs_pdf
- garden_3d_viewer
- garden_fractals
- garden_games
- garden_learn_to_program
- garden_webservices
- grid_analysis

- grid_calculus
- grid_calculus_bs1
- grid_filter
- grid_gridding
- grid_spline
- grid_tools
- grid_visualisation
- imagery
- imagery_classification
- imagery_isocluster
- imagery_maxent
- imagery_opencv
- imagery_photogrammetry
- imagery_segmentation
- imagery_svm
- imagery_tools
- imagery_vigra
- io_esri_e00
- io_gps
- io_grid
- io_grid_image
- io_shapes
- io_shapes_dxf
- io_shapes_las
- io_table
- io_virtual
- pj_georeference
- pj_geotrans
- pj_proj4
- pointcloud_tools
- pointcloud_viewer
- shapes_grid
- shapes_lines
- shapes_points
- shapes_polygons
- shapes_tools
- shapes_transect
- sim_cellular_automata
- sim_ecosystems_hugget
- sim_erosion
- sim_fire_spreading
- sim_hydrology
- sim_ihacres
- sim_qm_of_esp
- sim_rivflow
- statistics_grid
- statistics_kriging
- statistics_points
- statistics_regression
- ta_channels
- ta_compound
- ta_hydrology
- ta_lighting

- ta_morphometry
- ta_preprocessor
- ta_profiles
- ta_slope_stability
- table_calculus
- table_tools
- terrain_analysis
- tin_tools
- tin_viewer
- toolchains
- tta_tools

type -h or --help for further information

Error: select a library

C:\OSGeo4W64\bin>saga_cmd grid_calculus "Grid Calculator" -GRIDS

"C:\Users\pedro\AppData\Local\Temp\processing8edb67c56c2f40fdbdb571c8abd10840\85d24e433ae4d70a0f056249cd78bbd\baciaslee2014201817Binarytiff.sgrd" -FORMULA "int(a)" -USE_NODATA false -TYPE 5 -RESULT "C:\Users\pedro\AppData\Local\Temp\processing8edb67c56c2f40fdbdb571c8abd10840\0a6500bac81a4dd3ba613aba5777b8ce\RESULT.sdat"

```
#####  ##  #####  ##
###   ###  ##   ###
###  # ## ##  #####  ##
### #####  ##  # #####
#####  #  ##  #####  #  ##
```

SAGA Version: 2.3.1 (64 bit)

```
library path: C:\saga_2.3.1_x64\modules\
library name: grid_calculus
library    : Calculus
tool       : Grid Calculator
author     : A.Ringeler (c) 2003
processors : 4 [4]
```

Load grid:

C:\Users\pedro\AppData\Local\Temp\processing8edb67c56c2f40fdbdb571c8abd10840\85d24e433ae4d70a0f056249cd78bbd\baciaslee2014201817Binarytiff.sgrd...

failed

Grid Calculator: could not initialize data objects

Error: executing tool [Grid Calculator]

C:\OSGeo4W64\bin>exit

2017-04-03T11:30:18 2 Error loading result layer:

Traceback (most recent call last):

File "C:/OSGEO4~1/apps/qgis-rel-dev/.python/plugins\processing\gui\Postprocessing.py", line 75, in handleAlgorithmResults

```
out.name))
File "C:/OSGEO4~1/apps/qgis-rel-dev/.python/plugins\processing\tools\dataobjects.py", line 199, in load
+ "\
```

Check the processing framework log to look for errors')

RuntimeError: Could not load layer:

```
C:\\Users\\pedro\\AppData\\Local\\Temp\\processing8edb67c56c2f40fdbdb571c8abd10840\\0a6500bac81a4dd3ba613aba5777b8ce\\RESULT.sdat
b8ce\\RESULT.sdat
```

Check the processing framework log to look for errors

With OSGeo4W Shell I get:

```
C:\\OSGeo4W64\\bin>set SAGA=C:/saga_2.3.1_x64
```

```
C:\\OSGeo4W64\\bin>set SAGA_MLB=C:/saga_2.3.1_x64\\modules
```

```
C:\\OSGeo4W64\\bin>PATH=C:\\OSGEO4~1\\apps\\Python36\\lib\\site-packages\\
umpy\\core;C:\\OSGEO4~1\\apps\\qgis-dev\\bin;C:\\OSGEO4~1\\apps\\grass\\grass-7.2.0\\lib;C:\\OSGEO4~1\\apps\\grass\\grass-7.2.0\\bin;C
-7.2.0\\bin;C:\\OSGEO4~1\\apps\\Python36;C:\\OSGEO4~1\\apps\\Python36\\Scripts;C:\\OSGEO4~1\\apps\\qt5\\bin;C:\\OSGEO4~1\\apps\\P
4~1\\apps\\Python27\\Scripts;C:\\OSGEO4~1\\bin;C:\\WINDOWS\\system32;C:\\WINDOWS;C:\\WINDOWS\\WBem;C:\\OSGEO4~1\\apps\\m
~1\\apps\\msys\\bin;C:/saga_2.3.1_x64;C:/saga_2.3.1_x64\\modules
```

```
C:\\OSGeo4W64\\bin>saga_cmd io_gdal
```

```
##### ## ##### ##
### ### ## ###
### # ## ## ##### # ##
### ##### ## # #####
##### # ## ##### # ##
```

SAGA Version: 2.3.1 (64 bit)

77 loaded tool libraries (670 tools):

- climate
- climate_tools
- contrib_perego
- db_odbc
- db_pgsql
- docs_html
- docs_pdf
- garden_3d_viewer
- garden_fractals
- garden_games
- garden_learn_to_program
- garden_webservices
- grid_analysis
- grid_calculus
- grid_calculus_bsl
- grid_filter
- grid_gridding
- grid_spline

- grid_tools
- grid_visualisation
- imagery
- imagery_classification
- imagery_isocluster
- imagery_maxent
- imagery_opencv
- imagery_photogrammetry
- imagery_segmentation
- imagery_svm
- imagery_tools
- imagery_vigra
- io_esri_e00
- io_gps
- io_grid
- io_grid_image
- io_shapes
- io_shapes_dxf
- io_shapes_las
- io_table
- io_virtual
- pj_georeference
- pj_geotrans
- pj_proj4
- pointcloud_tools
- pointcloud_viewer
- shapes_grid
- shapes_lines
- shapes_points
- shapes_polygons
- shapes_tools
- shapes_transect
- sim_cellular_automata
- sim_ecosystems_hugget
- sim_erosion
- sim_fire_spreading
- sim_hydrology
- sim_ihacres
- sim_qm_of_esp
- sim_rivflow
- statistics_grid
- statistics_kriging
- statistics_points
- statistics_regression
- ta_channels
- ta_compound
- ta_hydrology
- ta_lighting
- ta_morphometry
- ta_preprocessor
- ta_profiles
- ta_slope_stability
- table_calculus

- table_tools
- terrain_analysis
- tin_tools
- tin_viewer
- toolchains
- tta_tools

type -h or --help for further information

Running saga_cmd directly from the folder I get:

```
C:\saga_2.3.1_x64>saga_cmd
```

```
##### ## ##### ##
### ### ## ###
### # ## ## ##### # ##
### ##### ## # #####
##### # ## ##### # ##
```

SAGA Version: 2.3.1 (64 bit)

78 loaded tool libraries (680 tools):

- climate
- climate_tools
- contrib_perego
- db_odbc
- db_pgsq
- docs_html
- docs_pdf
- garden_3d_viewer
- garden_fractals
- garden_games
- garden_learn_to_program
- garden_webservices
- grid_analysis
- grid_calculus
- grid_calculus_bsl
- grid_filter
- grid_gridding
- grid_spline
- grid_tools
- grid_visualisation
- imagery
- imagery_classification
- imagery_isocluster
- imagery_maxent
- imagery_opencv
- imagery_photogrammetry
- imagery_segmentation
- imagery_svm

- imagery_tools
- imagery_vigra
- io_esri_e00
- io_gdal
- io_gps
- io_grid
- io_grid_image
- io_shapes
- io_shapes_dxf
- io_shapes_las
- io_table
- io_virtual
- pj_georeference
- pj_geotrans
- pj_proj4
- pointcloud_tools
- pointcloud_viewer
- shapes_grid
- shapes_lines
- shapes_points
- shapes_polygons
- shapes_tools
- shapes_transect
- sim_cellular_automata
- sim_ecosystems_hugget
- sim_erosion
- sim_fire_spreading
- sim_hydrology
- sim_ihacres
- sim_qm_of_esp
- sim_rivflow
- statistics_grid
- statistics_kriging
- statistics_points
- statistics_regression
- ta_channels
- ta_compound
- ta_hydrology
- ta_lighting
- ta_morphometry
- ta_preprocessor
- ta_profiles
- ta_slope_stability
- table_calculus
- table_tools
- terrain_analysis
- tin_tools
- tin_viewer
- toolchains
- tta_tools

Error: select a library

type -h or --help for further information

```
C:\saga_2.3.1_x64>saga_cmd io_gdal
```

```
##### ## ##### ##  
### ### ## ###  
### # ## ## ##### # ##  
### ##### ## # #####  
##### # ## ##### # ##
```

SAGA Version: 2.3.1 (64 bit)

Library: GDAL/OGR

Category: Import/Export

File: C:\saga_2.3.1_x64\modules\io_gdal.dll

Tools:

- 0 Import Raster
- 1 Export Raster
- 2 Export GeoTIFF
- 3 Import Shapes
- 4 Export Shapes
- 5 Export Shapes to KML
- 6 Import NetCDF
- 7 Create Raster Catalog from Files
- 8 Create Raster Catalog from Directory
- 9 Import TMS Image

Error: select a tool

type -h or --help for further information

History

#1 - 2017-04-03 06:52 AM - Giovanni Manghi

- Priority changed from High to Severe/Regression

This is critical to be solved before 2.18 ships as new LTR.

#2 - 2017-04-03 06:57 AM - Jürgen Fischer

Does that also happen with OSGeo4W's saga-ltr?

#3 - 2017-04-03 07:23 AM - Pedro Venâncio

A different problem with OSGeo4W's saga-ltr, Jurgen:

Unexpected parameter '0'

Algorithm Raster calculator starting...

io_gdal 0 -TRANSFORM -INTERPOL 0 -GRIDS

"C:\\Users\\pedro\\AppData\\Local\\Temp\\processing9f5e24d6e7234d1f96bc0c51710e11cd\\246df25cfcdbd420bfd46f0a0f59cc7c\\baciaslee2014201817Binary.sgrd" -FILES "D:\\SIG\\CRIF2010\\POM_2017\\LEE_2017\\bacias_lee_2014_2018_17_Binary.tif"

grid_calculus "Grid Calculator" -GRIDS

"C:\\Users\\pedro\\AppData\\Local\\Temp\\processing9f5e24d6e7234d1f96bc0c51710e11cd\\246df25cfcdbd420bfd46f0a0f59cc7c\\baciaslee2014201817Binary.sgrd" -FORMULA "int(a)" -TYPE 5 -RESULT

"C:\\Users\\pedro\\AppData\\Local\\Temp\\processing9f5e24d6e7234d1f96bc0c51710e11cd\\beff0bb51d65463a805800f4efc946c8\\RESULT.sdat" [?]C:\\OS
at"

C:\\OSGeo4W64\\bin>set SAGA=C:\\OSGeo4W64\\apps\\saga-ltr

C:\\OSGeo4W64\\bin>set SAGA_MLB=C:\\OSGeo4W64\\apps\\saga-ltr\\modules

C:\\OSGeo4W64\\bin>PATH=C:\\OSGEO4~1\\apps\\Python27\\lib\\site-packages\\Shapely-1.2.18-py2.7-win-amd64.egg\\shapely\\DLLs;C:\\OSGEO4~1\\apps\\
EO4~1\\apps\\Python27\\DLLs;C:\\OSGEO4~1\\apps\\Python27\\lib\\site-packages\\
umpy\\core;C:\\OSGEO4~1\\apps\\qgis-rel-dev\\bin;C:\\OSGEO4~1\\apps\\grass\\grass-7.2.0\\lib;C:\\OSGEO4~1\\apps\\grass\\grass-7.2.0\\bin;C:\\OSGEO4~1\\
:\\OSGEO4~1\\apps\\Python27\\Scripts;C:\\OSGEO4~1\\bin;C:\\WINDOWS\\system32;C:\\WINDOWS;C:\\WINDOWS\\WBem;C:\\OSGEO4~1\\apps\\msys\\bin
ps\\msys\\bin;C:\\OSGeo4W64\\apps\\saga-ltr;C:\\OSGeo4W64\\apps\\saga-ltr\\modules

C:\\OSGeo4W64\\bin>saga_cmd io_gdal 0 -TRANSFORM -INTERPOL 0 -GRIDS

"C:\\Users\\pedro\\AppData\\Local\\Temp\\processing9f5e24d6e7234d1f96bc0c51710e11cd\\246df25cfcdbd420bfd46f0a0f59cc7c\\baciaslee2014201817Binary.sgrd" -FILES "D:\\SIG\\CRIF2010\\POM_2017\\LEE_2017\\bacias_lee_2014_2018_17_Binary.tif"

Unexpected parameter '0'

#####

SAGA Version: 2.3.2 (64 bit)

library path: C:\\OSGeo4W64\\apps\\saga-ltr\\modules\\
library name: io_gdal
library : GDAL/OGR
tool : Import Raster
author : O.Conrad (c) 2007 (A.Ringeler)
processors : 4 [4]

Usage: saga_cmd io_gdal 0 [-GRIDS] [-FILES] [-SELECTION] [-SELECT_SORT] [-TRANSFORM] [-RESAMPLING]
-GRIDS: Grids
Grid list (output)
-FILES: Files
File path
-SELECTION: Select from Multiple Bands
Text
-SELECT_SORT: Alphanumeric Sorting
Boolean

Default: 1

-TRANSFORM: Transformation

Boolean

Default: 1

-RESAMPLING: Resampling

Choice

Available Choices:

[0] Nearest Neighbour

[1] Bilinear Interpolation

[2] Bicubic Spline Interpolation

[3] B-Spline Interpolation

Default: 3

C:\OSGeo4W64\bin>saga_cmd grid_calculus "Grid Calculator" -GRIDS

"C:\Users\pedro\AppData\Local\Temp\processing9f5e24d6e7234d1f96bc0c51710e11cd\246df25cfcdbd420bfd46f0a0f59cc7c\baciaslee2014201817Binary.sgrd" -FORMULA "int(a)" -TYPE 5 -RESULT

"C:\Users\pedro\AppData\Local\Temp\processing9f5e24d6e7234d1f96bc0c51710e11cd\beff0bb51d65463a805800f4efc946c8\RESULT.sdat" [?]_____

at"

#####

###

###

###

#####

#####

SAGA Version: 2.3.2 (64 bit)

library path: C:\OSGeo4W64\apps\saga-ltr\modules\

library name: grid_calculus

library : Calculus

tool : Grid Calculator

author : A.Ringeler (c) 2003

processors : 4 [4]

Load grid:

C:\Users\pedro\AppData\Local\Temp\processing9f5e24d6e7234d1f96bc0c51710e11cd\246df25cfcdbd420bfd46f0a0f59cc7c\baciaslee2014201817Binary.sgrd...

4201817Binary.sgrd...

failed

Grid Calculator: could not initialize data objects

Error: executing tool [Grid Calculator]

C:\OSGeo4W64\bin>exit

Converting outputs

Loading resulting layers

The following layers were not correctly generated.

Calculated

You can check the log messages to find more information about the execution of the algorithm

Sorry, tested 2.18.5 before close all QGIS projets. So with QGIS 2.18.5 and SAGA 2.3.2 (osgeo4w saga-ltr) everything seems to work ok.

With QGIS 3:

Algorithm Raster calculator starting...

io_gdal 0 -TRANSFORM -RESAMPLING 0 -GRIDS

"C:\\Users\\pedro\\AppData\\Local\\Temp\\processingb6b8add68afd4ac9acdff98353efb6b7\\e43b1f2c4cb440f28e8cd8cb2d0f0872\\SRTMPT25mclip.sgrd" -FILES "D:/SIG/MDT/SRTM_25m_JAG/SRTM_PT_25m_clip.tif"

grid_calculus "Grid Calculator" -GRIDS

"C:\\Users\\pedro\\AppData\\Local\\Temp\\processingb6b8add68afd4ac9acdff98353efb6b7\\e43b1f2c4cb440f28e8cd8cb2d0f0872\\SRTMPT25mclip.sgrd" -FORMULA "a*2" -TYPE 7 -RESULT

"C:\\Users\\pedro\\AppData\\Local\\Temp\\processingb6b8add68afd4ac9acdff98353efb6b7\\9acc2bbc236d4153997a498172525417\\RESULT.sdat" -RESULT "C:\\Users\\pedro\\AppData\\Local\\Temp\\processingb6b8add68afd4ac9acdff98353efb6b7\\9acc2bbc236d4153997a498172525417\\RESULT.sdat"

C:\\OSGeo4W64\\bin>set SAGA=C:/OSGeo4W64/apps/saga-ltr

C:\\OSGeo4W64\\bin>set SAGA_MLB=C:/OSGeo4W64/apps/saga-ltr\\modules

C:\\OSGeo4W64\\bin>PATH=C:\\OSGEO4~1\\apps\\Python36\\lib\\site-packages\\numpy\\core;C:\\OSGEO4~1\\apps\\qgis-dev\\bin;C:\\OSGEO4~1\\apps\\grass\\grass-7.2.0\\lib;C:\\OSGEO4~1\\apps\\grass\\grass-7.2.0\\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\\WBem;C:\\OSGEO4~1\\apps\\msys\\bin;C:/OSGeo4W64/apps/saga-ltr;C:/OSGeo4W64/apps/saga-ltr\\modules

C:\\OSGeo4W64\\bin>saga_cmd io_gdal 0 -TRANSFORM -RESAMPLING 0 -GRIDS

"C:\\Users\\pedro\\AppData\\Local\\Temp\\processingb6b8add68afd4ac9acdff98353efb6b7\\e43b1f2c4cb440f28e8cd8cb2d0f0872\\SRTMPT25mclip.sgrd" -FILES "D:/SIG/MDT/SRTM_25m_JAG/SRTM_PT_25m_clip.tif"

Unexpected parameter '0'

#####

SAGA Version: 2.3.2 (64 bit)

library path: C:\\OSGeo4W64\\apps\\saga-ltr\\modules\\
library name: io_gdal
library : GDAL/OGR
tool : Import Raster
author : O.Conrad (c) 2007 (A.Ringeler)
processors : 4 [4]

Usage: saga_cmd io_gdal 0 [-GRIDS] [-FILES] [-SELECTION] [-SELECT_SORT] [-TRANSFORM] [-RESAMPLING]
-GRIDS: Grids

Grid list (output)

-FILES: Files

File path

-SELECTION: Select from Multiple Bands

Text

-SELECT_SORT: Alphanumeric Sorting

Boolean

Default: 1

-TRANSFORM: Transformation

Boolean

Default: 1

-RESAMPLING: Resampling

Choice

Available Choices:

[0] Nearest Neighbour

[1] Bilinear Interpolation

[2] Bicubic Spline Interpolation

[3] B-Spline Interpolation

Default: 3

C:\OSGeo4W64\bin>saga_cmd grid_calculus "Grid Calculator" -GRIDS

"C:\Users\pedro\AppData\Local\Temp\processingb6b8add68afd4ac9acdff98353efb6b7\43b1f2c4cb440f28e8cd8cb2d0f0872\SRTMPT25mclip.sgrd" -Fmclip.sgrd" -FORMULA "a*2" -TYPE 7 -RESULT

"C:\Users\pedro\AppData\Local\Temp\processingb6b8add68afd4ac9acdff98353efb6b7\9acc2bbc236d4153997a498172525417\RESULT.sdat" [?]_____
dat"

#####

SAGA Version: 2.3.2 (64 bit)

library path: C:\OSGeo4W64\apps\saga-ltr\modules\
library name: grid_calculus
library : Calculus
tool : Grid Calculator
author : A.Ringeler (c) 2003
processors : 4 [4]

Load grid:

C:\Users\pedro\AppData\Local\Temp\processingb6b8add68afd4ac9acdff98353efb6b7\43b1f2c4cb440f28e8cd8cb2d0f0872\SRTMPT25mclip.sgrd...
clip.sgrd...

failed

Grid Calculator: could not initialize data objects

Error: executing tool [Grid Calculator]

C:\OSGeo4W64\bin>exit

Converting outputs

'NoneType' object has no attribute 'crs' See log for more details

I think the problem is on

<https://github.com/qgis/QGIS/blob/master/python/plugins/processing/algs/saga/SagaAlgorithm.py#L328>

```
return 'io_gdal 0 -TRANSFORM -RESAMPLING 0 -GRIDS "' + destFilename + '" -FILES "' + source + '"'
```

should be

```
return 'io_gdal 0 -TRANSFORM 1 -RESAMPLING 0 -GRIDS "' + destFilename + '" -FILES "' + source + '"'
```

#5 - 2017-04-03 12:47 PM - Pedro Venâncio

Besides the error in <https://github.com/qgis/QGIS/blob/master/python/plugins/processing/algs/saga/SagaAlgorithm.py#L328>

I've found something strange, that can be tested running SAGA - Raster Calculator, with SAGA-LTR (from OSGeo4W) and

Sample file: https://cld.pt/dl/download/6ac21f8c-0244-45a5-823e-6047bb99b208/bacias_lee_2014_2018_17_Binary.tif

Formula: int(a)

Use NoData: no

Data Type: [5] unsigned 4 byte integer

The purpose of this exercise is to pass the original raster to integer. When I do this in SAGA 2.3.2, pixels with a value of 1 go to nodata.

Using SAGA 2.3.2 GUI, I get the correct result (value 1). Same with SAGA 2.1.2.

The problem is related to the import (io_gdal).

After some tests,

- On Linux, with SAGA 2.3.1, it works well;
- On Windows, with SAGA 2.1.2, it works well;
- On Windows, with SAGA 2.3.2 GUI, it works well;
- On Windows, with SAGA 2.3.2, the import:

```
saga_cmd io_gdal 0 -TRANSFORM 1 -RESAMPLING 0 -GRIDS "C:\\Users\\PedroVenancio\\qgis\\baciaslee2014201817Binary.sgrd" -FILES  
"C:\\Users\\PedroVenancio\\qgis\\bacias_lee_2014_2018_17_Binary.tif"
```

passes the pixels with value 1 to nodata, both on QGIS and on osgeo4w shell.

- On Windows, with SAGA 2.3.1 from <https://sourceforge.net/projects/saga-gis/files/SAGA%20-%202.3/>, it works well on cli. This version, through QGIS, gives the problem of not loading the io_gdal module that I reported above.

#6 - 2017-04-04 02:03 AM - Victor Olaya

Looks like there was an issue in the syntax supported. It wasnt correctl using 2.3.x syntax in QGIS 3. I just fied it, so QGIS 3 should work fine with the saga-ltr shipped in osgeo4w

#7 - 2017-04-07 02:42 AM - Giovanni Manghi

- *Resolution set to duplicate*
- *Status changed from Open to Closed*

For sake of clarity this has been replaced by #16423, #16422 and #16421