

## QGIS Application - Bug report #18167

### I have a modification to make r.mapcalc (grass7/processing toolbox) work with windows 7 and QGIS Master (2.99...)

2018-02-21 03:56 PM - Olivier ATHIMON

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b> Processing/GRASS	
<b>Affected QGIS version:</b> master	<b>Regression?:</b> No
<b>Operating System:</b> Windows	<b>Easy fix?:</b> No
<b>Pull Request or Patch Supplied:</b>	<b>Resolution:</b> fixed/implemented
<b>Crashes QGIS or corrupts data:</b>	<b>Copied to github as #:</b> 26058

#### Description

Hi,

#### I have a modification to make r.mapcalc (from QGIS/GRASS 7 processing toolbox) work with windows 7 and QGIS Master (2.99...)

In the file : <https://github.com/qgis/QGIS/blob/master/python/plugins/processing/algs/grass7/Grass7Algorithm.py>

#### You should replace in "def exportRasterLayersIntoDirectory" :

```
for cmd in [self.commands, self.outputCommands]:
    # TODO Windows support
    # TODO Format/options support
    cmd.append("for r in $(g.list type=rast pattern='{}*'); do".format(basename))
    cmd.append(" r.out.gdal -m{0} input=${{r}} output={1}/${{r}}.tif {2}".format(
        '-t' if colorTable else "", outDir,
        '--overwrite -c createopt="TFW=YES,COMPRESS=LZW"
    )
    )
    cmd.append("done")
```

#### By this:

```
for cmd in [self.commands, self.outputCommands]:
    # TODO Windows support
    # TODO Format/options support
    cmd.append("for /f %r in (%g.list type=rast"); do r.out.gdal -m{0} input=%r output={1}/%r.tif {2}".format(
        '-t' if colorTable else "", outDir,
        '--overwrite -c createopt="TFW=YES,COMPRESS=LZW"
    )
    )
```

#### My modification gives this :

```

def exportRasterLayersIntoDirectory(self, name, parameters, context, colorTable=True, wholeDB=False):
    """
    Creates a dedicated loop command to export rasters from
    temporary GRASS DB into a directory via gdal.
    :param name: name of the output directory parameter.
    :param parameters: Algorithm parameters dict.
    :param context: Algorithm context.
    :param colorTable: preserve color Table.
    :param wholeDB: export every raster layer from the GRASSDB
    """
    # Grab directory name and temporary basename
    outDir = os.path.normpath(
        self.parameterAsString(parameters, name, context))
    basename = ""
    if not wholeDB:
        basename = name + self.uniqueSuffix

    # Add a loop export from the basename
    for cmd in [self.commands, self.outputCommands]:
        # TODO Windows support
        # TODO Format/options support
        cmd.append("for r in $(g.list type=rast pattern='{}*'); do".format(basename))
        cmd.append(" r.out.gdal -m{0} input=${{r}} output={1}/${{r}}.tif {2}".format(
            '-t' if colorTable else "", outDir,
            '--overwrite -c createopt="TFW=YES,COMPRESS=LZW"')
        cmd.append("for /f %%r in ("%g.list type=rast"); do r.out.gdal -m{0} input=%%r output={1}/%%r.tif {2}".format(
            '-t' if colorTable else "", outDir,
            '--overwrite -c createopt="TFW=YES,COMPRESS=LZW"')
        )
    )
    cmd.append("done")

```

## Associated revisions

Revision b39e5a09 - 2018-11-11 03:15 AM - Jürgen Fischer

processing: add windows support to exportRasterLayersIntoDirectory (fixes #20146)

## History

#1 - 2018-02-21 03:58 PM - Giovanni Manghi

- Pull Request or Patch supplied changed from No to Yes
- Status changed from Open to Feedback
- Priority changed from High to Normal

Please file a pull request in the QGIS code repository. Thanks!

#2 - 2018-02-21 04:03 PM - Alexander Bruy

- Assignee deleted (Alexander Bruy)

#3 - 2018-02-21 11:36 PM - Olivier ATHIMON

Giovanni Manghi wrote:

*Please file a pull request in the QGIS code repository. Thanks!*

I do it :

commit:e5981c9eb41ff87f0827e14afb39361bb6a6fc8e

<https://github.com/ggis/QGIS/blob/e5981c9eb41ff87f0827e14afb39361bb6a6fc8e/python/plugins/processing/algs/grass7/Grass7Algorithm.py>

#### #4 - 2018-02-25 10:32 PM - Giovanni Manghi

Olivier ATHIMON wrote:

*Giovanni Manghi wrote:*

*Please file a pull request in the QGIS code repository. Thanks!*

*I do it :*

commit:e5981c9eb41

<https://github.com/ggis/QGIS/blob/e5981c9eb41ff87f0827e14afb39361bb6a6fc8e/python/plugins/processing/algs/grass7/Grass7Algorithm.py>

Hi,

I tested the code (on Windows) and it works which is of course very cool (despite the fact that using `r.mapcalc` is very cumbersome because is needed to manually write the input file names and that the output is not added to the project).

I have anyway 2 questions:

is the code tested on Linux?

where is your PR?

I cannot find it here

<https://github.com/ggis/QGIS/commits?author=ilikeggis>

is not among open or closed ones

<https://github.com/ggis/QGIS/pulls>

#### #5 - 2018-11-11 03:22 AM - Jürgen Fischer

- Resolution set to fixed/implemented

- Status changed from Feedback to Closed

"duplicate" of #20146

#### Files

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using_01_r_mapcalc.jpg	142 KB	2018-02-21	Olivier ATHIMON
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using_02_r_mapcalc.jpg	329 KB	2018-02-21	Olivier ATHIMON
using_03_r_mapcalc.jpg	492 KB	2018-02-21	Olivier ATHIMON
using_04_r_mapcalc.jpg	465 KB	2018-02-21	Olivier ATHIMON
using_05_r_mapcalc_grass_batch_job_cmd.jpg	92.5 KB	2018-02-21	Olivier ATHIMON
DEM.tif	2.42 MB	2018-02-21	Olivier ATHIMON
grass_batch_job.cmd	537 Bytes	2018-02-21	Olivier ATHIMON
Proposal_for_Grass7Algorithm.jpg	227 KB	2018-02-21	Olivier ATHIMON