

QGIS Application - Bug report #5644

GRASS integration should use private, not user's .grassrc6 file

2012-05-26 06:53 AM - Markus Neteler

Status: Closed	
Priority: Normal	
Assignee: Victor Olaya	
Category: Processing/GRASS	
Affected QGIS version: 2.4.0	Regression?: No
Operating System:	Easy fix?: No
Pull Request or Patch supplied:	Resolution: fixed/implemented
Crashes QGIS or corrupts data:	Copied to github as #: 15206
Description	
<p>Currently Sextante (1.5) is using the user's \$HOME/.grassrc6 file. This ruins the command line usage of GRASS afterwards:</p> <pre>grass64 Cleaning up temporary files ... Starting GRASS ... access: No such file or directory ERRORE: LOCATION << /home/neteler/sextante/tmpdata/grassdata/temp_location >> non disponibile</pre> <p>Solution: Simply set GISRC differently.</p> <p>Here a solution derived from the GRASS-on-cluster usage page:</p> <pre># Set the global grassrc file to individual file name UNIQUE=`mktemp --dry-run` MYTMP=`basename \$UNIQUE` VERSION=6 GISRC="\$HOME/.grassrc\$VERSION.\$MYTMP" export GISRC</pre> <p>Also in case of QGIS/Sextante crashes, this would not touch the original GISRC of the user.</p>	

History

#1 - 2012-05-29 08:51 AM - Victor Olaya

- Status changed from Open to Resolved

In windows, SEXTANTE runs its own batch script, which sets the gisrc file to a predefined one (sextante.gisrc) in the SEXTANTE user folder. In linux, instead, it just calls GRASS using the GRASS_BATCH_JOB variable. I have changed the behaviour in linux (change committed to [r195](#)), so the GISRC variable is set to that custom file as well.

I hope this solves the problem

#2 - 2012-12-09 05:09 AM - Giovanni Manghi

- Status changed from Resolved to Closed

I assume this can be closed, please reopen it if necessary.

#3 - 2012-12-09 09:17 AM - Markus Neteler

- Status changed from Closed to Reopened

Current SEXTANTE break the \$HOME/.grassrc6 file as before, hence reopened:

```
[neteler@north ~]$ cat .grassrc6
GISDBASE: /home/neteler/.qgis//sextante/tempdata/grassdata
LOCATION_NAME: temp_location
MAPSET: user
DEBUG: 0
GRASS_GUI: text
```

As mentioned: it should not touch this file at all.

#4 - 2012-12-09 09:32 AM - Victor Olaya

- Status changed from Reopened to Feedback

Hi Markus

The current code runs this before actually calling GRASS

```
gisrc = SextanteUtils.userFolder() + os.sep + "sextante.gisrc"
os.putenv("GISRC", gisrc)
os.putenv("GRASS_MESSAGE_FORMAT", "gui")
os.putenv("GRASS_BATCH_JOB", GrassUtils.grassBatchJobFilename())
```

And then all edits are done on the sextante.gisrc file. The .grassrc6 file is not touched, as far as I have checked in the latest version. Is there any other way that file can change if not editing it directly?(maybe running some GRASS command that edits it...).

thanks in advance for your help to fix this!

#5 - 2012-12-09 09:33 AM - Markus Neteler

Try something along these lines:

```
# Set the global grassrc file to individual file name
MYGISRC="$HOME/.grassrc6.$MYUSER.\uname -n"

#generate GISRCRC
echo "GISDBASE: $HOME/grassdata" >> "$MYGISRC"
echo "LOCATION_NAME: $MYLOC" >> "$MYGISRC"
echo "MAPSET: $MYMAPSET" >> "$MYGISRC"
echo "GRASS_GUI: text" >> "$MYGISRC"
```

```
# path to GRASS settings file
export GISRC=$MYGISRC
```

... then do the job.

#6 - 2012-12-09 09:36 AM - Markus Neteler

I would also suggest:

```
os.putenv("GRASS_MESSAGE_FORMAT", "gui")
-> os.putenv("GRASS_MESSAGE_FORMAT", "plain")
```

(see <http://grass.osgeo.org/grass64/manuals/variables.html> for options)

#7 - 2013-04-10 09:12 AM - Markus Neteler

Victor, what is the current state here?

#8 - 2013-04-21 06:52 AM - Victor Olaya

Hey Markus,

I just had another look at that part, and what you suggest is exactly what SEXTANTE is doing. It creates a new gisrc file, and then sets GISRC to that file.

Could you please check that you still have the problem. The only difference between your suggested solution and the current one is the name of the file, but I guess that should not be a problem (unless GRASS refuses to use the name SEXTANTE uses for the file and reverts to the default .grassrc6)

Thanks!

#9 - 2013-04-22 01:36 PM - Markus Neteler

Victor Olaya wrote:

Hey Markus,

I just had another look at that part, and what you suggest is exactly what SEXTANTE is doing. It creates a new gisrc file, and then sets GISRC to that file.

The behaviour is as before:

- using QGIS 1.8 from Fedora repo, fetching Sextante 1.0.9 via plugin manager
- slope calculation as example in QGIS-Sextante-GRASS
- exit from QGIS
- start current GRASS 6.4.svn:

grass64

Cleaning up temporary files ...

Starting GRASS ...

```
access: No such file or directory
ERROR: LOCATION << /tmp/sextante/grassdata/temp_location >> not available
```

```
cat $HOME/.grassrc6
GISDBASE: /tmp/sextante/grassdata
LOCATION_NAME: temp_location
MAPSET: PERMANENT
DEBUG: 0
GRASS_GUI: wxpython
```

--> The file has been overwritten again. Sextante should use e.g.

`$HOME/.grassrc6.sextante`

See also

- http://grasswiki.osgeo.org/wiki/GRASS_and_Shell#Automated_batch_jobs:_Setting_the_GRASS_environmental_variables
- http://grasswiki.osgeo.org/wiki/Working_with_GRASS_without_starting_it_explicitly

#10 - 2013-04-22 01:49 PM - Victor Olaya

`| |` - using QGIS 1.8 from Fedora repo, fetching Sextante 1.0.9 via plugin manager

oops, that might be a problem. We do no more work on SEXTANTE for 1.8. Since some time ago, the development version (which is now in the QGIS repo) can run only on QGIS master. The change in the API made backwards compatibility hard to maintain, so we are targeting just QGIS 2.0 now.

Not sure that that solves the problem, but the SEXTANTE version you are getting from the plugin manager is old, and it's not being updated now. I recommend you trying QGIS master.

Once 2.0 is out, we will release separate versions of SEXTANTE, but now you need QGIS master to run the latest developments. Sorry for that, and thanks again for your help!

#11 - 2013-04-22 02:05 PM - Markus Neteler

While SEXTANTE from the QGIS 1.8 plugin manager may be old, it is the official one :-)

Well, I am not able to run a development version of QGIS on my systems since we are in production... if you point me to the file where this is handled, I may see how to fix it even for 1.0.9 (looks like a potentially trivial fix to me).

However, feel free to "wontfix" here, as you prefer.

#12 - 2013-04-22 02:14 PM - Victor Olaya

Yes, I understand that a dev version is not fine in all environments...

You can find the code that handles that in here: [GrassUtils.py](#)

Tell me if you need me to do something else, and thanks again!

#13 - 2013-10-15 08:37 AM - Filipe Dias

Is this still valid?

#14 - 2014-03-13 08:57 AM - Markus Neteler

Apparently yes: <http://lists.osgeo.org/pipermail/grass-user/2014-March/069945.html>

#15 - 2014-06-21 02:29 PM - Giovanni Manghi

- Status changed from Feedback to Open

#16 - 2014-10-04 11:52 AM - Giovanni Manghi

- Project changed from 78 to QGIS Application

- Category deleted (59)

- Affected QGIS version set to 2.4.0

- Crashes QGIS or corrupts data set to No

#17 - 2014-10-04 11:53 AM - Giovanni Manghi

- Category set to Processing/GRASS

#18 - 2015-02-14 12:15 PM - Markus Neteler

Another report: [OSGeo Live !#1398](#) : QGIS's processing (sextante) toolbox hijacks grass's .rc file

#19 - 2015-02-14 03:14 PM - Jürgen Fischer

Markus Neteler - wrote:

| Another report: [OSGeo Live !#1398](#) : QGIS's processing (sextante) toolbox hijacks grass's .rc file

Processing runs GRASS commands via GRASS_BATCH_JOB through grass64. And it's GRASS' [lnit.sh](#) that saves processing's temporary rc over the user's rc.

Is there a way around this or should we simply rename the user's rc before running grass64 and restore it afterwards?

#20 - 2015-02-14 04:02 PM - Markus Neteler

AFAIK you can define the name like through a variable:

GISRC:

name of .grassrc6 file. Defines the system wide value while in a GRASS session.

(<http://grass.osgeo.org/grass64/manuals/variables.html>)

#21 - 2015-02-14 04:11 PM - Jürgen Fischer

Markus Neteler - wrote:

AFAIK you can define the name like through a variable:

GISRC:

name of .grassrc6 file. Defines the system wide value while in a GRASS session.

<http://grass.osgeo.org/grass64/manuals/variables.html>

That's what it does (plus using [GRASS_BATCH_JOB](#)) - and the link in my previous comment points to the very line that copies that rc over the user's rc (AFAICS \$GISRCRC is the user's rc if there is no "\$HOME/.grassrc6.uname -n"). Perhaps it would be good to move the copy to the else branch of the following if.

#22 - 2016-01-18 10:35 AM - Alexander Bruy

- Status changed from Open to Feedback

Any news on this? As I can see from code Processing creates private gisrc file.

#23 - 2016-02-09 05:24 AM - Médéric RIBREUX

- % Done changed from 0 to 100

- Status changed from Feedback to Closed

- Resolution set to fixed/implemented

Hello, bug triage...

I can't reproduce it on QGIS 2.13 master with GRASS7 on Debian Stretch. File ~/.grass7/rc is untouched by QGIS which creates a [temporary ~/.processing/gisrc7](#). There is the same code for GRASS6.4.

I am closing this bug which seems to be fixed by more than one user !