

## QGIS Application - Bug report #1900

### Qgis crashes after closing a GRASS mapset and removing a GRASS layer from the legend

2009-08-26 11:54 AM - Giovanni Manghi

<b>Status:</b> Closed	
<b>Priority:</b> Low	
<b>Assignee:</b> Lorenzo Masini	
<b>Category:</b> GRASS	
<b>Affected QGIS version:</b>	<b>Regression?:</b> No
<b>Operating System:</b> All	<b>Easy fix?:</b> No
<b>Pull Request or Patch supplied:</b>	<b>Resolution:</b> fixed
<b>Crashes QGIS or corrupts data:</b>	<b>Copied to github as #:</b> 11960
<b>Description</b>	
<p>I can see the following behaviour with some data (the qgis sample dataset for example). I'm using qgis dev version (1.3) installed via osgeo4w.</p> <p>To replicate do the following:</p> <ul style="list-style-type: none"><li>*) open the qgis sample (GRASS) dataset</li><li>*) add a vector layer</li><li>*) close the GRASS mapset (without removing the GRASS vector layer)</li><li>*) close qgis (file -&gt; exit)</li></ul> <p>it is first thrown a warning "variable LOCATION_NAME not set" that appears also under linux, but then under windows the program crashes. See attached image.</p> <p>Not really sure to what component assign this ticket.</p>	

#### Associated revisions

##### Revision 0b697b8c - 2009-09-05 02:00 PM - Jürgen Fischer

apply #1878 (fixes #1900)

git-svn-id: <http://svn.osgeo.org/qgis/trunk/qgis@11560> c8812cc2-4d05-0410-92ff-de0c093fc19c

##### Revision 43408110 - 2009-09-05 02:00 PM - Jürgen Fischer

apply #1878 (fixes #1900)

git-svn-id: <http://svn.osgeo.org/qgis/trunk@11560> c8812cc2-4d05-0410-92ff-de0c093fc19c

#### History

##### #1 - 2009-08-26 12:42 PM - Jürgen Fischer

not reproducible here using the spearfish dataset.

**#2 - 2009-08-26 01:29 PM - Giovanni Manghi**

Replying to [comment:1 jef]:

| *not reproducible here using the spearfish dataset.*

Hi,

yes, it doesn't happen with all GRASS mapsets, but i found a few ones that lead qgis to this behavior. Try for example the qgis sample dataset, where you can find a GRASS mapset.

**#3 - 2009-08-26 04:21 PM - Jürgen Fischer**

Replying to [comment:2 lutra]:

| *Replying to [comment:1 jef]:*

| | *not reproducible here using the spearfish dataset.*

| *Hi,*

| *yes, it doesn't happen with all GRASS mapsets, but i found a few ones that lead qgis to this behavior. Try for example the qgis sample dataset, where you can find a GRASS mapset.*

The patch in #1878 should fix this - please test.

**#4 - 2009-08-27 06:54 AM - Giovanni Manghi**

Hi,

if I apply the patch I get the following error while compiling.

By the way I cannot compile under windows, so it would be hard in any case to say if the crash is gone or not.

```
In file included from /home/gio/Desktop/qgis_unstable/src/providers/grass/qgsgrassprovider.cpp:19:
/home/gio/Desktop/qgis_unstable/src/providers/grass/qgsgrass.h: In constructor 'QgsGrass::Exception::Exception(const char*)':
/home/gio/Desktop/qgis_unstable/src/providers/grass/qgsgrass.h:37: error: no matching function for call to 'std::exception::exception(const char*&)'
/usr/include/c++/4.3/exception:59: note: candidates are: std::exception::exception()
/usr/include/c++/4.3/exception:57: note:          std::exception::exception(const std::exception&)

maker2: *** [src/providers/grass/CMakeFiles/qgisgrass.dir/qgsgrassprovider.o] Error 1
maker1: *** [src/providers/grass/CMakeFiles/qgisgrass.dir/all] Error 2
make: *** [all] Error 2
```

**#5 - 2009-08-27 09:03 AM - Jürgen Fischer**

Replying to [comment:4 lutra]:

| *if I apply the patch I get the following error while compiling.*

fixed - patch replaced.

**#6 - 2009-08-27 01:33 PM - Giovanni Manghi**

Replying to [comment:5 jef]:

| *fixed - patch replaced.*

Hi Jurgen,

the patch under linux works, the warning message is gone. If the warning message is the source for the crash under windows, then the problem should be fixed.

Thanks.

**#7 - 2009-08-27 01:35 PM - Giovanni Manghi**

Applies the same patch of #1878

**#8 - 2009-09-05 05:02 AM - Jürgen Fischer**

- Resolution set to fixed
- Status changed from Open to Closed

fixed in commit:43408110 (SVN r11561)

**#9 - 2009-09-29 10:24 AM - Giovanni Manghi**

- Status changed from Closed to Feedback
- Resolution deleted (fixed)

I have to reopen this ticket because I'm seeing this behaviour again (under Ubuntu 9.04, both qgis 1.3 from repo and 1.4 trunk).

Open a GRASS mapset, add a layer, close the mapset, remove the layer from legend -> qgis crashes

```
terminate called after throwing an instance of 'QgsGrass::Exception'  
  what(): G_getenv(): Variable LOCATION_NAME not set  
Aborted
```

**#10 - 2009-11-29 06:18 AM - Giovanni Manghi**

- Status changed from Feedback to Open

**#11 - 2010-01-07 04:37 AM - Redmine Admin**

- Status changed from Open to Closed

- Resolution set to fixed

There are 2 problems here:

1) Bug in GDAL GRASS provider (<http://trac.osgeo.org/gdal/ticket/3313>), if MAPSET is unset, the next attempt to read GRASS raster data results in GRASS fatal error. I have written a patch for GDAL (waiting for approval) and temporal fix for QGIS in changeset:12687.

2) Another problem is, how GRASS fatal errors are handled and that is quite interesting. It is possible to set a routine which handles GRASS errors with G\_set\_error\_routine. The problem is, that both QGIS GRASS plugin and GDAL GRASS driver do it. GDAL sets Grass2CPLHook while GRASS [[QgsGrass]]::error\_routine. When an error happens in GDAL it does not call the Grass2CPLHook but [[QgsGrass]]::error\_routine because the routine was reset in the mean time by QGIS GRASS plugin. [[QgsGrass]]::error\_routine throws [[QgsGrass]]::Exception but that is not caught by raster layer renderer (right, it is expecting error from GDAL) and thus qgis crashes. Isn't it nice!?

I don't know how to solve this at moment, but I close this bug as 1) is resolved and I create a new ticket for 2) : #2347

**Files**

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Screenshot.jpg	242 KB	2009-08-26	Giovanni Manghi
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