

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

| | | |
|---|----------------|-------------------------------------|
| Status: | Closed | |
| Priority: | Low | |
| Assignee: | Lorenzo Masini | |
| Category: | GRASS | |
| Affected QGIS version: | | Regression?: No |
| Operating System: | All | Easy fix?: No |
| Pull Request or Patch supplied: | | Resolution: fixed |
| Crashes QGIS or corrupts data: | | Copied to github as #: 11960 |
| Description | | |
| <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">*) open the qgis sample (GRASS) dataset*) add a vector layer*) close the GRASS mapset (without removing the GRASS vector layer)*) close qgis (file -> exit) <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/qgis@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 Grass2CPLErrorHandlerHook while GRASS [[QgsGrass]]::error_routine. When an error happens in GDAL it does not call the Grass2CPLErrorHandlerHook 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

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