

QGIS Application - Bug report #7941

IGNF:LAMBE -- not reprojecting

2013-05-30 01:07 AM - Jeff Moyer

Status: Closed	
Priority: Severe/Regression	
Assignee:	
Category: Projection Support	
Affected QGIS version: master	Regression?: No
Operating System: Windows	Easy fix?: No
Pull Request or Patch supplied: No	Resolution: fixed/implemented
Crashes QGIS or corrupts data: No	Copied to github as #: 16809

Description

Hi,

I'm having problems with QGIS since more or less a month (early May). Before that date, I was using a version 1.8 and was happy with it. In Early May, for some reason QGIS stopped working (possibly because I installed something else and messed up with libs); I reinstalled QGIS as follows:

- Windows 7
- QGIS 1.8

The current version I'm describing the bug for is QGIS 1.8.0-Lisboa rev. ac2970b, GDAL 1.9.2, installed from Osgeo4w installer.

The problem arises specifically with layers whose CRS is IGNF:LAMBE and try to display it for instance in an EPSG:4326 project, on the fly projection enabled.

Upon loading one such layer (raster or vector), QGIS cannot reproject it on the fly and comes with an error message

```
Impossible de reprojeter l'emprise de la couche Poursuivre la transformation de
(-0.080374, 0.706336)
(...)
(0.155981, 0.902190)
(0.199656, 0.899465)
PROJ.4: +proj=lcc +lat_1=46.8 +lat_0=46.8 +lon_0=0 +k_0=0.99987742 +x_0=600000 +y_0=2200000 +a=6378249.2
+b=6356514.999978254 +nadgrids=ntf_r93.gsb,null +pm=2.337229167 +units=m +no_defs +to +proj=longlat +datum=WGS84
+no_defs
Erreur: failed to load datum shift file
```

The error appears (1) if I did set the project properties to 4326, on the fly enabled, and try to load the layer; the moment I define the CRS. or (2) if, having loaded the layer in a "non-reprojected" project, I try to enable on the fly projection to 4326 (or, it seems, to about anything else, but I've not done systematic tests).

History

#1 - 2013-07-18 03:54 AM - Benoit Laurent

The problem also occurs on version 1.9.0

#2 - 2013-07-18 05:31 AM - Giovanni Manghi

- Category set to Projection Support

- Status changed from Open to Feedback

Can you attach sample data? Thanks.

#3 - 2013-07-18 05:40 AM - Benoit Laurent

In a new project, if I just enable 'On the fly' CRS transformation and select RGF93/Lambert-93 for instance, QGIS throws an exception. The problem also occurs with all Lambert CRS.

#4 - 2013-07-20 03:17 AM - Giovanni Manghi

Benoit Laurent wrote:

In a new project, if I just enable 'On the fly' CRS transformation and select RGF93/Lambert-93 for instance, QGIS throws an exception. The problem also occurs with all Lambert CRS.

I made a few tests with epsg 2154 (On Linux and Windows) and I cannot confirm. If you can attach the problematic project and data it would be better to allow troubleshoot the issue.

#5 - 2013-07-21 11:30 PM - Benoit Laurent

- File *lambert_projection_problem.prj.qgs* added

Indeed, I could not reproduce the problem with RGF93/Lambert-93. It's weird. However, I could with :

- IGNF:LAMB1,
- IGNF:LAMB1C,
- IGNF:LAMB2,
- IGNF:LAMB2C,
- IGNF:LAMB2E,
- IGNF:LAMB3,
- IGNF:LAMB3C,
- IGNF:LAMB4,
- IGNF:LAMB4C.

I joined my project.

#6 - 2013-07-22 04:41 AM - Giovanni Manghi

Benoit Laurent wrote:

Indeed, I could not reproduce the problem with RGF93/Lambert-93. It's weird. However, I could with :

- *IGNF:LAMB1,*
- *IGNF:LAMB1C,*
- *IGNF:LAMB2,*
- *IGNF:LAMB2C,*
- *IGNF:LAMB2E,*
- *IGNF:LAMB3,*
- *IGNF:LAMB3C,*

- *IGNF:LAMB4,*
 - *IGNF:LAMB4C.*
- I joined my project.*

I cannot confirm with your project and any of the above crs. Please try on a clean installation or on another machine (or attach a project with data).

#7 - 2013-07-23 05:17 AM - Benoit Laurent

- *File action.PNG added*
- *File exception.PNG added*

I installed QGIS (last weekly release) on another computer (running on Windows XP) with the same result.

I just :

- launch QGIS ;
- open the project properties ;
- enable the "on the fly transformation" checkbox ;
- choose one of the above mentioned crs.

QGIS throws an exception.

I joined the dialog boxes as pictures.

#8 - 2013-07-23 06:34 AM - Giovanni Manghi

- *Status changed from Feedback to Open*
- *Operating System changed from QGIS 1.8.0 Windows to Windows*

Now I see, but only on Windows.

Benoit Laurent wrote:

I installed QGIS (last weekly release) on another computer (running on Windows XP) with the same result.

I just :

- *launch QGIS ;*
- *open the project properties ;*
- *enable the "on the fly transformation" checkbox ;*
- *choose one of the above mentioned crs.*

QGIS throws an exception.

I joined the dialog boxes as pictures.

#9 - 2013-08-02 06:03 AM - Regis Haubourg

confirmed here, first attempt to set IGNF:LAMB93 OK, second attempt with LAMB2C throws same exception..

we have a blocker for french users! Can anyone raise priority?

#10 - 2013-08-02 06:42 AM - Jürgen Fischer

- *Priority changed from Normal to Severe/Regression*

#11 - 2013-08-26 02:37 AM - Regis Haubourg

Hi, google indicates that the error seems to come from proj4 gdal. Anyone confirms?

#12 - 2013-08-26 03:07 AM - Regis Haubourg

same bug occurs when trying to export to file and reproject from LAM93 to LAMB2C. So proj4 is the problem.

L'export du fichier vectoriel a échoué.

Erreur : Impossible de transformer un point pendant le dessin de l'entité avec l'id '175707379'. L'écriture est stoppée. (Exception: Poursuivre la transformation de

(-0.004213, 0.805607)

PROJ.4: +proj=lcc +lat_1=44 +lat_2=49 +lat_0=46.5 +lon_0=3 +x_0=700000 +y_0=6600000 +ellps=GRS80 +towgs84=0,0,0,0,0,0,0 +units=m

+no_defs +to +proj=lcc +lat_1=46.8 +lat_0=46.8 +lon_0=0 +k_0=0.99987742 +x_0=600000 +y_0=2200000 +a=6378249.2

+b=6356514.999978254 +nadgrids=ntf_r93.gsb,null +pm=2.337229167 +units=m +no_defs

Erreur: failed to load datum shift file)

#13 - 2013-08-26 03:38 AM - Giovanni Manghi

- *Resolution set to up-/downstream*

- *Status changed from Open to Closed*

So if the problem is upstream I will close this ticket, please reopen if necessary.

#14 - 2013-08-26 03:43 AM - Jürgen Fischer

regis Haubourg wrote:

| same bug occurs when trying to export to file and reproject from LAM93 to LAMB2C. So proj4 is the problem.

| [...]

on OSGeo4W the file "ntf_r93.gsb" is in the "proj-datumgrid" and the "proj" package depends on it. So it should be there.

#15 - 2013-08-27 03:16 AM - Jürgen Fischer

- *Resolution deleted (up-/downstream)*

- *Status changed from Closed to Reopened*

Does the PROJ_LIB point to ../share/proj? That can be checked by running `import os and os.getenv("PROJ_LIB")` in the python console - if that's ok, please also check if the ntf_r93.gsb is in the directory PROJ_LIB points to.

#16 - 2013-08-27 03:29 AM - Benoit Laurent

In my case, PROJ_LIB does not point to .../share/proj but directly to .../proj which does not exist.

```
os.getenv("PROJ_LIB")  
'C:\\\\Program Files\\\\QGIS Weekly2\\\\proj'
```

That may explain the problem...

#17 - 2013-08-27 03:37 AM - Jürgen Fischer

Benoit Laurent wrote:

```
os.getenv("PROJ_LIB")  
'C:\\\\Program Files\\\\QGIS Weekly2\\\\proj'  
  
That may explain the problem...
```

Yes. Does C:\\\\Program Files\\\\QGIS Weekly2\\\\etc\\ini\\proj.bat exist?

#18 - 2013-08-27 03:41 AM - Benoit Laurent

Yes. Its content is:

```
SET PROJ_LIB=%OSGEO4W_ROOT%\share\proj
```

It seems ok, doesn't it ?

#19 - 2013-08-27 03:56 AM - Hien TRAN-QUANG

Ok, found the problem :

Grass sets wrongly environment variable :

in OSGEO4W_ROOT\\apps\\grass\\grass-6.4.3\\etc\\env.bat

line 13 is

```
set PROJ_LIB=%OSGEO4W_ROOT%\proj
```

It should read

```
set PROJ_LIB=%OSGEO4W_ROOT%\share\proj
```

(which was correctly set in etc\\ini\\proj.bat)

#20 - 2013-08-27 04:18 AM - Benoit Laurent

Does executing the env.bat file after the correction you suggest solve temporarily the problem ? Is it more complicated than that ?

#21 - 2013-08-27 04:26 AM - Jürgen Fischer

Benoit Laurent wrote:

| *Does executing the env.bat file after the correction you suggest solve temporarily the problem ? Is it more complicated than that ?*

env.bat is automatically executed on start. So just changing it should do the trick.

#22 - 2013-08-27 04:27 AM - Hien TRAN-QUANG

Grass' env.bat is called automatically after setting other setenv (python, gdal, and so on) and that typo overwrote the correct one.

That's not a temporary solve but a definite one.

#23 - 2013-08-27 04:30 AM - Jürgen Fischer

- Resolution set to up-/downstream

Hien TRAN-QUANG wrote:

| *Ok, found the problem :*

| *Grass sets wrongly environment variable :*

| *in OSGEO4W_ROOT\apps\grass\grass-6.4.3\etc\env.bat*

good catch - filed a [OSGeo4W !#369](#)

#24 - 2013-08-27 04:35 AM - Giovanni Manghi

so I guess we can re-close this one?

#25 - 2013-08-27 05:36 AM - Benoit Laurent

| *env.bat is automatically executed on start*

It's time for the stupid question: when you write "on start", you mean when we launch qgis ? I made the correction, I launch QGIS and the PROJ_LIB variable is still incorrect. I must miss something...

#26 - 2013-08-27 07:06 AM - Hien TRAN-QUANG

Launching QGIS is in fact calling qgis.bat (or qgis-dev.bat) which calls o4w.bat then grass\etc\env.bat.

o4w.bat sets some environment variables (PYTHON_HOME for example) by calling \\etc\ini*.bat That's where a first PROJ_LIB is defined.

But then grass's own setenv file (apps\grass\grass-xxx\etc\env.bat) overwrites that definition.

#27 - 2013-08-27 07:59 AM - Benoit Laurent

| *Launching QGIS is in fact calling qgis.bat (or qgis-dev.bat) which calls o4w.bat then grass\etc\env.bat.*

o4w.bat sets some environment variables (PYTHON_HOME for example) by calling \etc\ini*.bat That's where a first PROJ_LIB is defined.

But then grass's own setenv file (apps\grass\grass-xxx\etc\env.bat) overwrites that definition.

Ok, I better understand the process now. I eventually solved my other problem. Your correction works perfectly well. Thank you very much !

#28 - 2013-08-28 02:16 AM - Giovanni Manghi

- *Status changed from Reopened to Closed*

So if I'm not wrong when can close this again... reopen if otherwise.

#29 - 2013-10-16 12:09 AM - Jeff Moyen

- *Status changed from Closed to Reopened*

Hi there,

it's back I'm afraid...

1. Install QGIS 2.0.1 / 64b (win 7)
2. load a WGS84 layer (in my case, a postGIS table with EPSG:4326)
3. activate on the fly reprojection, try to switch SCR to LAMBE
4. Watch the error message :-/

I did check OSGEO4W_ROOT\apps\grass\grass-6.4.3\etc\env.bat (using the windows stand-alone installer, it happens to be C:\PROGRA~1\QGISDU~1, and the option window does say so); it does, correctly, read set PROJ_LIB=%OSGEO4W_ROOT%\share\proj.

Within Qgis option wondows, PROJ_LIB = C:\PROGRA~1\QGISDU~1\share\proj

So I'm afraid, the issue is back...

Best,

JF

#30 - 2013-10-18 02:32 AM - Cédric Duprez

Hi,

I have the same problem, which only happens with 64bit version.

I could solve it doing this :

1. edit C:\OSGeo4W64\apps\grass\grass-6.4.3\etc\env.bat
2. change the 2 following lines :

```
set GDAL_DATA=%OSGEO4W_ROOT%\share\gdal
set PROJ_LIB=%OSGEO4W_ROOT%\share\proj
like this :
set GDAL_DATA="%OSGEO4W_ROOT%\share\gdal"
set PROJ_LIB="%OSGEO4W_ROOT%\share\proj"
(just adding the paths between double quotes
3. launch QGis again and it should be OK !
```

It works now for vector layers, but I still have the problem with raster layers.

Regards,

Cedric

#31 - 2013-10-20 09:03 AM - Jeff Moyen

Hello Cédric,

sorry to report that your solution does not work for me...

In a standalone install (not OSgeo4W), the file is of course at
C:\Program Files\QGIS Dufour\apps\grass\grass-6.4.3\etc

The double-quoting does not do the trick for me...

#32 - 2014-02-08 04:05 AM - Giovanni Manghi

- Target version set to Version 2.2
- Resolution deleted (up-/downstream)

As far I can see this is still an issue at least on osgeo4w 64bit

#33 - 2014-02-13 05:56 PM - Jürgen Fischer

- Status changed from Reopened to Closed
- Resolution set to fixed/implemented

Giovanni Manghi wrote:

| As far I can see this is still an issue at least on osgeo4w 64bit

Fixed in OSGeo4W.

Files

lambert_projection_problem.prj.qgs	1.94 KB	2013-07-21	Benoit Laurent
action.PNG	78.2 KB	2013-07-23	Benoit Laurent
exception.PNG	45.2 KB	2013-07-23	Benoit Laurent