QGIS Application - Bug report #7941
IGNF:LAMBE -- not reprojecting

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

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'emrpise 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:LABM2,
- 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:LABM2,*
> *- 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 mentionned 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 mentionned 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 automaticaly 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](OSGeo4W)

#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-xxxx\\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-xxxx\\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