

QGIS Application - Bug report #874

Windows - Crash when creatin new mapset in GRASS with custom projection with +towgs84

2007-12-16 11:40 AM - Fernando Pacheco -

Status:	Closed	
Priority:	Low	
Assignee:	Magnus Homann	
Category:	GRASS	
Affected QGIS version:		Regression?: No
Operating System:	Windows	Easy fix?: No
Pull Request or Patch supplied:		Resolution: fixed
Crashes QGIS or corrupts data:		Copied to github as #: 10933
Description		
In Windows, QGis crash when the user trying to create a new mapset with a custom projection containing the parameter +towgs84. There is no problem in Linux. To reproduce this bug: 1-run Qgis in Windows; 2-create a custom projection in QGis. For example ROU-USAM (Uruguay): +proj=tmerc +lat_0=-90 +lon_0=-55.8 +k=1.000000000 +x_0=500000 +y_0=0 +ellps=intl +towgs84=-155,171,37,0,0,0,0 +units=m +no_defs; 3-establish this or another projection in QGis; 4-begin to create a new mapset with GRASS (database,location, mapset). When you set the projection created in step 1, QGis crash. Thanks. Fernando.		

History

#1 - 2007-12-16 11:59 PM - Magnus Homann

- Status changed from Open to In Progress

#2 - 2008-01-25 05:35 AM - Magnus Homann

This seems to be some sort of GRASS error. qgsgrassnewmapset calls GPJ_osr_to_grass and it appears that the crash is somewhere there.

This is the last output from [[WinXP]] before crash, see the (null) at last line:

```
Debug: c:/Qgis-devel/qgis_trunk/src/gui/qgsprojectionselector.cpp: 276: (getCurrentProj4String) mySrsId = 100000
Debug: c:/Qgis-devel/qgis_trunk/src/gui/qgsprojectionselector.cpp: 277: (getCurrentProj4String) USER_PROJECTION_START_ID = 100000
Debug: c:/Qgis-devel/qgis_trunk/src/gui/qgsprojectionselector.cpp: 294: (getCurrentProj4String) users qgis.db found
Debug: c:/Qgis-devel/qgis_trunk/src/gui/qgsprojectionselector.cpp: 301: (getCurrentProj4String) db = C:/Documents and Settings/homann/.qgis/qgis.db
Debug: c:/Qgis-devel/qgis_trunk/src/gui/qgsprojectionselector.cpp: 320: (getCurrentProj4String) Selection sql: select parameters from tbl_srs where srs_id = 100000
Item selected : [[CrashTest]]
Item selected full string : +proj=tmerc +lat_0=-90 +lon_0=-55.8 +k=1.000000000 +x_0=500000 +y_0=0 +ellps=intl +towgs84=-155,171,37,0,0,0,0
+
units=m +no_defs
```

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```
proj4 = +proj=tmerc +lat_0=-90 +lon_0=-55.8 +k=1.000000000 +x_0=500000 +y_0=0 +ellps=intl +towgs84=-155,171,37,0,0,0,0 +units=m
+no_defs
OSRIsGeographic = 0
OSRIsProjected = 1
wkt = PROJCS[["unnamed"GEOGCS["International 1909 (Hayford)"DATUM["unknown"SPHEROID["intl]],PRIM
EM[["Greenwich"0]UNIT["degree"00174532925199433]]PROJECTION["Transverse_Mercator"]PARAMETER["latitude_of_origin"],PARAMETER["centra[?]_mer
"centra
l_meridian",-55.8],PARAMETER[["scale_factor"1]PARAMETER["false_easting"500000]PARAMETER["false_northing"0]UNIT["Meter]]
error_routine (fatal = 0): unable to open datum table file: (null)
No such file or directory

Program received signal SIGSEGV, Segmentation fault.
0x77c423e4 in wscanf () from /cygdrive/c/WINDOWS/system32/msvcrt.dll
```

Crash in wscanf due to nonexisting file?

#3 - 2008-01-25 05:40 AM - Magnus Homann

In Ubuntu, I moved the file `//usr/lib/grass/etc/datum.table`, and got similar response. No crash, however. Notice that file name is present

```
Debug: /home/homann/Qgis-Devel/qgis_trunk/src/gui/qgsprojectionselector.cpp: 320: (getCurrentProj4String) Selection sql: select parameters
from tbl_srs where srs_id = 100007
Item selected : SWEREF 99 TM
Item selected full string : +proj=tmerc +lat_0=0 +lon_0=15 +k=0.9996 +x_0=500000 +y_0=0 +ellps=GRS80 +towgs84=0,0,0,0,0,0 +units=m
+no_defs
proj4 = +proj=tmerc +lat_0=0 +lon_0=15 +k=0.9996 +x_0=500000 +y_0=0 +ellps=GRS80 +towgs84=0,0,0,0,0,0 +units=m +no_defs
OSRIsGeographic = 0
OSRIsProjected = 1
wkt = PROJCS[["unnamed"GEOGCS["GRS 1980(IUGG
1980)"DATUM["unknown"SPHEROID["GRS80"6378137298257222101]TOWGS84r0000000]PRIMEM["Greenwich"0]UNIT["degree"00174532925199433]]PR
5199433]]PROJECTION["Transverse_Mercator"]PARAMETER["latitude_of_origin"0]PARAMETER["central_meridian"15]PARAMETER["scale_factor"09996]P
ctor"09996]PARAMETER["false_easting"500000]PARAMETER["false_northing"0]UNIT["Meter]]
error_routine (fatal = 0): unable to open datum table file: /usr/lib/grass/etc/datum.table
ret = 2
mProjInfo = 0x8c75120
```

#4 - 2008-01-25 02:22 PM - Markus Neteler

The datum file is searched in `$GISBASE/etc/datum.table`". I suspect that it is missing there or unaccessible? It should work since the native winGRASS version also works.

Other source of error: white space in the path of `$GISBASE` - if so, please let the GRASS team know.

Markus

#5 - 2008-01-25 02:23 PM - Markus Neteler

Note: the error is generated in grass63/lib/gis/datum.c

#6 - 2008-05-21 01:36 AM - Marco Pasetti -

- *Status changed from In Progress to Closed*

- *Resolution set to fixed*

#7 - 2009-08-22 12:54 AM - Anonymous

Milestone Version 0.9.2 deleted