

QGIS Application - Bug report #262

Projectin transformations on fly still crash QGIS

2006-09-08 01:53 PM - anonymous -

Status:	Closed	
Priority:	Low	
Assignee:	Gary Sherman	
Category:	Projection Support	
Affected QGIS version:		Regression?: No
Operating System:	Debian	Easy fix?: No
Pull Request or Patch supplied:		Resolution: fixed
Crashes QGIS or corrupts data:		Copied to github as #: 10321
Description		
I loaded simple shapefile with coordinate system r1 and started to play with projection changing. At third projection it crashed :) Unfortunately crashes on projection changes are very often. I can add more fault examples, if you need such :) r1:+proj=tmerc +lat_0=0 +lon_0=24 +k=0.999600 +x_0=500000 +y_0=0 +ellps=WGS84 +units=m +no_defs Crash: Selection sql : select parameters from tbl_srs where srs_id = 2473 Item selected : Lisbon Item selected full string : +proj=longlat +ellps=intl +no_defs [[SpatialRefSys]]/ProjectSRSProj4String: +proj=longlat +ellps=intl +no_defs [[QgsProjectionSelector]]::getCurrentProj4String : mySrsId = 2473 [[QgsProjectionSelector]]::getCurrentProj4String : USER_PROJECTION_START_ID = 100000 [[QgsProjectionSelector]]::getCurrentProj4String db = /usr/local/share/qgis/resources/srs.db Selection sql : select parameters from tbl_srs where srs_id = 2473 Item selected : Lisbon Item selected full string : +proj=longlat +ellps=intl +no_defs Debug: qgsspatialrefsys.cpp: 408: (createFromSrsId) [[QgsSpatialRefSys]]::createFromSrsId Debug: qgsspatialrefsys.cpp: 1285: (openDb) [[QgsSpatialRefSys]]::openDb path = /usr/local/share/qgis/resources/srs.db Debug: qgsspatialrefsys.cpp: 906: (setMapUnits) Projection has angular units of degree Setting map units to 2 Debug: qgsscalecalculator.cpp: 114: (calculateGeographicDistance) Distance across map extent (m): 1.16284e+10 Debug: qgsscalecalculator.cpp: 70: (calculate) Using conversionFactor of 39.3701 [[QgsMapCanvas]]::render Debug: qgsmaprender.cpp: 184: (render) ===== Rendering ===== Debug: qgsmaprender.cpp: 200: (render) Starting to render layer stack. Debug: qgsmaprender.cpp: 210: (render) At layer item 'krasta_linija_poly20060908234320269' Debug: qgsmaprender.cpp: 218: (render) If there is a QPaintEngine error here, it is caused by an emit call Debug: qgsmaplayer.cpp: 127: (name) [[QgsMapLayer]]::name: returning name 'krasta_linija_poly Debug: qgsmaprender.cpp: 231: (render) Rendering layer krasta_linija_poly Debug: qgsmaprender.cpp: 232: (render), Layer minscale : 0 Debug: qgsmaprender.cpp: 233: (render), Layer maxscale : 0 Debug: qgsmaprender.cpp: 235: (render), Scale dep. visibility enabled? : 0 Debug: qgsmaprender.cpp: 236: (render) Input extent: 588123.5256602407898754,6360201.563419 8477491736 : 654035.8441072874702513,6418725.7058217935264111		

```

Debug: qgsmaplayer.cpp: 561: (coordinateTransform) Maplayer asked for coordinateTransform whi
ch is....
Debug: qgsmaplayer.cpp: 568: (coordinateTransform) valid
Debug: qgscoordinatetransform.cpp: 336: (transformBoundingBox) Entering transformBoundingBox.
..
Debug: qgscoordinatetransform.cpp: 383: (transformBoundingBox) Projected extent: 25.465525428
0335228,57.3593244591122442 : 26.5979268904583002,57.9023568248321681
Debug: qgsmaprender.cpp: 239: (render) Transformed extent: 25.4655254280335228,57.359324459
1122442 : 26.5979268904583002,57.9023568248321681
Debug: qgsmaplayer.cpp: 520: (connectNotify) [[QgsMapLayer]] connected to 2drawingProgress(int,in
t)
Debug: qgsmaplayer.cpp: 598: (projectExtent) Getting extent of canvas in layers CS. Canvas is
= 1632007.9092671519611031,1161399.9868973668199033 : 1739450.5885653679724783,1238356.1759
263921994716
Debug: qgscoordinatetransform.cpp: 461: (transformCoords) Projection failed emitting invalid
transform signal: NeveiksmÅ«gs inverse trasnform from
(1.63201e+06, 1.1614e+06)
with error: geocentric transformation missing z or ellps

Warning: [[QgsMapLayer]]::invalidTransformInput() called
Warning: Throwing exception qgscoordinatetransform.cppi
Warning: Throwing exception qgscoordinatetransform.cppE
Warning: Throwing exception qgscoordinatetransform.cppB
Warning: Transform error caught in qgsmaplayer.cpp, line 633
Debug: qgsogrprovider.cpp: 607: (select) Selection rectangle is: = -179769313486231570814527
423731704356798070567525844996598917476803157260780028538760589558632766878171540458953514382
464234321326889464182768467546703537516986049910576551282076245490090389328944075868508455133
942304583236903222948165808559332123348274797826204144723168738177180919299881250404026184124
858368.0000000000000000,-17976931348623157081452742373170435679807056752584499659891747680315
726078002853876058955863276687817154045895351438246423432132688946418276846754670353751698604
991057655128207624549009038932894407586850845513394230458323690322294816580855933212334827479
7826204144723168738177180919299881250404026184124858368.0000000000000000 : 179769313486231570
814527423731704356798070567525844996598917476803157260780028538760589558632766878171540458953
514382464234321326889464182768467546703537516986049910576551282076245490090389328944075868508
455133942304583236903222948165808559332123348274797826204144723168738177180919299881250404026
184124858368.0000000000000000,179769313486231570814527423731704356798070567525844996598917476
803157260780028538760589558632766878171540458953514382464234321326889464182768467546703537516
986049910576551282076245490090389328944075868508455133942304583236903222948165808559332123348
274797826204144723168738177180919299881250404026184124858368.0000000000000000

Warning: Setting spatial filter failed!
qgis: qgsogrprovider.cpp:638: virtual void [[QgsOgrProvider]]::select(QgsRect*, bool): Assertion @result==0' failed.
Aborted

```

History

#1 - 2006-10-15 09:54 AM - magnus-homann-se -

This is probably due to the fact that the selection rectangle is very big, and that it somehow fails to set it and that 'filter' is set to NULL in

```
void [[QgsOgrProvider]]::select(QgsRect *rect, bool useIntersect)
```

Is there a way to reproduce this issue?

#2 - 2006-11-06 09:07 AM - anonymous -

I created new shapefile and started to play with proj transformations (clicking on random projections till QGIS segfaults). No matter how insane those projection transformations could be, QGIS should NOT segfault. Error message, refusal to perform transformation etc. is OK, but not segfault.

To reproduce crash, load attached shapefile, enable projection changing on fly and choose one of these projections: `[[br]]`

QGIS SRSID: 66 `[[br]]`

QGIS SRSID: 175 `[[br]]`

QGIS SRSID: 937 `[[br]]`

QGIS SRSID: 1696

#3 - 2006-11-10 08:48 PM - Gavin Macaulay -

Fix in commit:68871e4b (SVN r6077) to prevent qgis crashing in this situation. The real problem is why are those projections listed above considered invalid by geos?

#4 - 2006-11-16 02:56 PM - Martin Dobias

Probably another robustness problem with GEOS. I guess this happens due the BIG coordinate values that may cause problems when calculating with floating point numbers.

However the main problem with QGIS crashing is solved. Can we close this?

#5 - 2006-11-16 06:51 PM - Gavin Macaulay -

- Status changed from Open to Closed

- Resolution set to fixed

Yes, we can close it. The original crash problem no longer happens.

Geos, when given the projections listed above, considers them to be invalid, even be it's asked to do any transformations.

#6 - 2009-08-22 12:46 AM - Anonymous

Milestone Version 0.8 deleted

Files

qgis_latvia.tar.gz	1.8 KB	2006-11-06	anonymous -
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