

QGIS Application - Bug report #1159

Identify tool with on-the-fly projection can crash

2008-07-16 10:26 AM - barryrowlingson -

Status:	Closed	
Priority:	Low	
Assignee:	Tom Elwertowski	
Category:	Projection Support	
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 #: 11219
Description		
<p>I loaded a world shapefile (downloaded from here <a href="http://www.cipotato.org/diva/data/moredata.htm">http://www.cipotato.org/diva/data/moredata.htm</a>), then set the projection to 164 - US National Atlas Equal Area (from the Projected Coord Systems: Lambert Azimuthal Equal Area category) and set on-the-fly projection.</p> <p>Do 'Zoom to Layer Extent' on the world layer. Now you get a US-centric circular map of the world.</p> <p>Using the Identify tool on the polygons works but is very slow. It's not a massive dataset but maybe the point-in-polygon projection calculations are complex. Never mind. If you click <b>outside</b> the circle of the map Qgis crashes on Windows with a Visual C++ Runtime Library Error. I'm guessing it's an arithmetic problem when converting from a screen coord that doesn't have a piece of the world under it.</p> <p>Haven't tested on Linux yet.</p>		

History

#1 - 2008-09-11 07:24 PM - Tom Elwertowski

Happens on Mac too (and most likely all platforms):

```
Debug: /Users/tce/developer/qgis/trunk/src/core/qgscoordinatetransform.cpp: 498: (transformCoords) Projection failed emitting invalid transform
signal: Failed inverse transform of
(-5.84894e+08, 6.4696e+08)
with error: tolerance condition error

Warning: Throwing exception /Users/tce/developer/qgis/trunk/src/core/qgscoordinatetransform.cpp502
Warning: Throwing exception /Users/tce/developer/qgis/trunk/src/core/qgscoordinatetransform.cpp272
Debug: Transform error caught in /Users/tce/developer/qgis/trunk/src/core/qgsmaprender.cpp line 630:
Failed inverse transform of
(-5.84894e+08, 6.4696e+08)
with error: tolerance condition error

terminate called after throwing an instance of 'QgsCsException'
what(): Failed inverse transform of
(-5.84894e+08, 6.4696e+08)
with error: tolerance condition error

Abort trap
```

There are two things to fix here.

- 1) QGIS needs an exception handler on the main event loop so that an exception alert is displayed and the user is allowed to continue without crashing.
- 2) The Identify code ought to handle this specific exception and report "No features found" much as it does if you click above or below the poles using an unprojected map.

**#2 - 2008-09-13 11:40 AM - Tom Elwertowski**

- *Resolution set to fixed*
- *Status changed from Open to Closed*

Fixed by commit:5facf32f (SVN r9321).

Also added application-wide exception handler for events in commit:b254446b (SVN r9320).

**#3 - 2009-08-22 12:57 AM - Anonymous**

Milestone Version 1.0.0 deleted