QGIS Application - Feature request #1478
Coordinate Capture plugin - fixes and enhancements

2009-01-06 08:07 PM - Steven Mizuno

Status:	Closed			
Priority:	Low			
Assignee:	Tim Sutton			
Category:	C++ Plugins			
Pull Request or Patch supplied:			**Resolution:**	fixed
Easy fix?:	No		**Copied to github as #:**	11538

Description

I have found the Coordinate Capture tool very useful, but have found the following deficiencies:

1. the projection selector does not show the currently selected CRS. This is because a call that ultimately goes to [[QgsGenericProjectionSelector]]::setSelectedEpsg(), which doesn't do anything.

2. very sluggish update of the coordinate displays during mouse move. This is caused by creating the destination CRS object from a PROJ4 text string in the mouse movement handler. It is not necessary to build it on mouse movement.

3. three places to right of decimal point is not useful for long/lat - should be at least 4 places (approximately 1 second precision)

Here is a summary of the patch provided.

I have changed the overall handling of the user selected CRS to use QGIS internal CRS IDs. This allows use of user defined CRS, which seems to be why the PROJ4 text string was used.

The destination CRS object is constructed when a CRS is chosen. This object is used in the mouse movement handler. Now the update of the display is much faster, and with lower CPU utilization.

Also, the source CRS is updated via SIGNAL/SLOT when the project CRS is changed.

The number of places to the right of the decimal in the coordinate boxes have 3 (if units are meters or feet) or 8 (if units is degrees). This gives up to 9-10 digits of precision, which is well more than is normally necessary.

History

#1 - 2009-01-06 09:57 PM - Maciej Sieczka -

Replying to smizuno:

> I have changed the overall handling of the user selected CRS to use QGIS internal CRS IDs. This allows use of user defined CRS, which seems to
> be why the PROJ4 text string was used.

QGIS CRS ids are not reliable. They might change on synchronisation between QGIS and GDAL's EPSG database representation. Only EPSG code are meant to be stable.

#2 - 2009-01-07 12:44 PM - Tim Sutton

- Resolution set to fixed

- Status changed from Open to Closed

I dont think using QGIS internal CRS is a concern here since this plugin is being used in an internal context.

SMizuno, many thanks for your patch, I've applied it as to stable branch and as to trunk.

Regards

Tim

#3 - 2009-08-22 01:01 AM - Anonymous

Milestone Version 1.0.1 deleted

Files

patch_for_1478.txt	4.67 KB	2009-01-06	Steven Mizuno