

Application: gvSIG desktop - gvSIG bugs #4548

Error when adding layers with user CRS

07/20/2017 09:58 AM - Mario Carrera

Status:	Closed	% Done:	0%
Priority:	Normal	Spent time:	0.00 hour
Assignee:			
Category:	CRS		
Target version:			
Severity:	Minor	Add-on version:	
gvSIG version:	2.4.0	Add-on build:	
gvSIG build:	2825	Add-on resolve version:	
Operative System:		Add-on resolve build:	
Keywords:		Proyecto:	
Has patch:		Hito:	
Add-on name:	Unknown		

Description

There's an error when adding layers with user CRS. The steps are:

- We create a View with a user CRS.
- We create a new layer in that View.
- After saving it, we add that layer in that View (from Add layer menu)

The CRS indicated in the "Add layer" window is an EPSG (not UTM) and it indicates "Reprojected-on-the-fly". If we accept, the layer is loaded in the ToC but it doesn't appear in the View, even selecting an element on the Table and pressing "Zoom to selection" tool. Zoom is in 0,0 coordinates.

History

#1 - 07/20/2017 11:51 AM - Antonio Falciano

Hi Mario,

can you attach a gvSIG.log file? What kind of error happens?

I can reproduce the error with an User CRS of mine, even if it depends by the specific user CRS you are using.

```
ERROR 246533 Thread-23 org.gvsig.crs.proj.CrsProj - Can't create CRS from ".
org.gvsig.crs.proj.CrsProjException: Error creating CRS
  at org.gvsig.crs.proj.CrsProj.createCrs(CrsProj.java:107)
  at org.gvsig.crs.proj.CrsProj.<init>(CrsProj.java:63)
  at org.gvsig.crs.Crs.getCrsProj(Crs.java:545)
  at org.gvsig.crs.COperation.<init>(COperation.java:146)
  at org.gvsig.crs.Crs.getCT(Crs.java:600)
  at org.gvsig.fmap.mapcontext.layers.FLayers.doAddLayer(FLayers.java:171)
  at org.gvsig.fmap.mapcontext.layers.FLayers.addLayer(FLayers.java:234)
  at org.gvsig.fmap.mapcontext.layers.FLayers.addLayer(FLayers.java:194)
  at org.gvsig.fmap.dal.serverexplorer.filesystem.swing.FilesystemExplorerWizardPanel$2.run(FilesystemExplorerWizardPanel.java:306)
  at java.lang.Thread.run(Unknown Source)
Caused by: java.lang.RuntimeException: OGR Error: Corrupt data
  at org.gdal.osr.osrJNI.SpatialReference_ImportFromProj4(Native Method)
  at org.gdal.osr.SpatialReference.ImportFromProj4(SpatialReference.java:535)
  at org.gvsig.crs.proj.CrsProj.createCrs(CrsProj.java:105)
```

Is it your case? Can you also attach the user crs row created in *gvSIG/plugins/org.gvsig.projection.app.jcrs/db/usr.script*? It can be useful in order to reproduce the issue.

#2 - 07/20/2017 12:22 PM - Mario Carrera

- File *gvSIG.log* added

Hi Antonio,

I attach log file.

I have applied a CRS that I had previously. I added it from WKT text given by a user at the mailing list, at this topic:

<http://osgeo-org.1560.x6.nabble.com/Problema-con-GVSIg-y-proyeccion-INEGI-Mexico-td5325898.html> .

The CRS user row is:

INSERT INTO USR VALUES

The problem has been sent to the Spanish mailing list today: <http://osgeo-org.1560.x6.nabble.com/HELP-cual-es-la-logica-td5328472.html>

#3 - 07/20/2017 01:06 PM - Antonio Falciano

Mario Carrera wrote:

Hi Antonio,

I attach log file.

Thanks for your prompt reply.

I have applied a CRS that I had previously. I added it from WKT text given by a user at the mailing list, at this topic:

<http://osgeo-org.1560.x6.nabble.com/Problema-con-GVSIg-y-proyeccion-INEGI-Mexico-td5325898.html> .

The WKT reported in this topic:

```
PROJCS["ITRF_1992Lambert_Conformal_Conic",GEOGCS["GCS_ITRF_1992_1",DATUM["D_ITRF_1992",SPHEROID["GRS_1980",6378137,298.257222101]],PRIMEM["Greenwich",0],UNIT["Degree",0.017453292519943295]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER["Central_Meridian",-102],PARAMETER["Latitude_Of_Origin",12],PARAMETER["False_Easting",2500000],PARAMETER["False_Northing",0],PARAMETER["Standard_Parallel_1",17.5],PARAMETER["Standard_Parallel_2",29.5],PARAMETER["Scale_Factor",1],UNIT["Meter",1]]
```

should be recognized as EPSG:6362 (Mexico ITRF92 / LCC). This is the ESRI WKT from *gdalsrsinfo*:

```
PROJCS["Mexico_ITRF92_LCC",GEOGCS["GCS_Mexico_ITRF92",DATUM["D_Mexican_Datum_of_1993",SPHEROID["GRS_1980",6378137,298.257222101]],PRIMEM["Greenwich",0],UNIT["Degree",0.017453292519943295]],PROJECTION["Lambert_Conformal_Conic"],PARAMETER["standard_parallel_1",17.5],PARAMETER["standard_parallel_2",29.5],PARAMETER["latitude_of_origin",12],PARAMETER["central_meridian",-102],PARAMETER["false_easting",2500000],PARAMETER["false_northing",0],UNIT["Meter",1]]
```

so there are some discrepancies about PROJCS, GEOGCS and DATUM name, which make difficult to OGR to recognize it with AutoidentifyEPSG. I suggest the user to update the WKT in projection files.

The CRS user row is:
`INSERT INTO USR VALUES`

The problem has been sent to the Spanish mailing list today: <http://osgeo-org.1560.x6.nabble.com/HELP-cual-es-la-logica-td5328472.html>

Instead, there aren't other useful elements in this topic. However, I've submitted a patch to improve the prj recognition (#4531) that should fix the most part of these issues.

#4 - 09/11/2017 12:20 PM - Álvaro Anguix

- Status changed from New to Closed

Files

gvSIG.log	455 KB	07/20/2017	Mario Carrera
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