

## Application: gvSIG desktop - gvSIG bugs #4359

### No se puede abrir la tabla de atributos de los ficheros GPX

09/09/2016 06:59 PM - Francisco Puga

<b>Status:</b>	Closed	<b>% Done:</b>	0%
<b>Priority:</b>	Normal	<b>Spent time:</b>	0.00 hour
<b>Assignee:</b>	Joaquín del Cerro Murciano		
<b>Category:</b>			
<b>Target version:</b>	2.4.0-2835 (rev. org.gvsig.desktop-2.0.202)		
<b>Severity:</b>	Minor	<b>Add-on version:</b>	
<b>gvSIG version:</b>	2.3.0	<b>Add-on build:</b>	
<b>gvSIG build:</b>	2444	<b>Add-on resolve version:</b>	
<b>Operative System:</b>		<b>Add-on resolve build:</b>	
<b>Keywords:</b>	gpx, attribute table	<b>Proyecto:</b>	
<b>Has patch:</b>		<b>Hito:</b>	
<b>Add-on name:</b>	Unknown		

#### Description

Cargo un fichero gpx, y selecciono la capa de waypoints. Se añade correctamente a la vista y los puntos están bien situados. Pero al abrir la tabla de atributos se produce un error:

```
INFO [AWT-EventQueue-0] (DefaultProject.java:374) - add('Attribute table: waypoints')
WARN [AWT-EventQueue-0] (AbstractDocumentManager.java:347) - Can't create the document window.
java.lang.reflect.InvocationTargetException
    at sun.reflect.NativeConstructorAccessorImpl.newInstance0(Native Method)
    at sun.reflect.NativeConstructorAccessorImpl.newInstance(NativeConstructorAccessorImpl.java:62)
    at sun.reflect.DelegatingConstructorAccessorImpl.newInstance(DelegatingConstructorAccessorImpl.java:45)
    at java.lang.reflect.Constructor.newInstance(Constructor.java:423)
    at
    org.gvsig.app.project.documents.AbstractDocumentManager.createDocumentWindow(AbstractDocumentManager.java:339)
    at org.gvsig.app.project.documents.table.TableManager.getMainWindow(TableManager.java:232)
    at org.gvsig.app.project.documents.AbstractDocumentManager.getMainWindow(AbstractDocumentManager.java:159)
    at org.gvsig.app.extension.ShowTable.execute(ShowTable.java:111)
    at org.gvsig.app.extension.ShowTable.execute(ShowTable.java:77)
    at
    org.gvsig.app.project.documents.table.gui.toc.ShowAttributesTableTocMenuEntry.execute(ShowAttributesTableTocMenuEntry.java:72)
    .java:72)
    at
    org.gvsig.app.project.documents.view.toc.AbstractTocContextMenuAction.execute(AbstractTocContextMenuAction.java:63)
    at org.gvsig.app.project.documents.view.toc.gui.FPopupMenu$MenuItem.actionPerformed(FPopupMenu.java:248)
    at javax.swing.AbstractButton.fireActionPerformed(AbstractButton.java:2022)
    at javax.swing.AbstractButton$Handler.actionPerformed(AbstractButton.java:2348)
    at javax.swing.DefaultButtonModel.fireActionPerformed(DefaultButtonModel.java:402)
    at javax.swing.DefaultButtonModel.setPressed(DefaultButtonModel.java:259)
    at javax.swing.AbstractButton.doClick(AbstractButton.java:376)
    at javax.swing.plaf.basic.BasicMenuItemUI.doClick(BasicMenuItemUI.java:833)
    at javax.swing.plaf.basic.BasicMenuItemUI$Handler.mouseReleased(BasicMenuItemUI.java:877)
    at java.awt.Component.processMouseEvent(Component.java:6535)
    at javax.swing.JComponent.processMouseEvent(JComponent.java:3324)
    at java.awt.Component.processEvent(Component.java:6300)
    at java.awt.Container.processEvent(Container.java:2236)
    at java.awt.Component.dispatchEventImpl(Component.java:4891)
    at java.awt.Container.dispatchEventImpl(Container.java:2294)
```

```
at java.awt.Component.dispatchEvent(Component.java:4713)
at java.awt.LightweightDispatcher.retargetMouseEvent(Container.java:4888)
at java.awt.LightweightDispatcher.processMouseEvent(Container.java:4525)
at java.awt.LightweightDispatcher.dispatchEvent(Container.java:4466)
at java.awt.Container.dispatchEventImpl(Container.java:2280)
at java.awt.Window.dispatchEventImpl(Window.java:2750)
at java.awt.Component.dispatchEvent(Component.java:4713)
at java.awt.EventQueue.dispatchEventImpl(EventQueue.java:758)
at java.awt.EventQueue.access$500(EventQueue.java:97)
at java.awt.EventQueue$3.run(EventQueue.java:709)
at java.awt.EventQueue$3.run(EventQueue.java:703)
at java.security.AccessController.doPrivileged(Native Method)
at java.security.ProtectionDomain$JavaSecurityAccessImpl.doIntersectionPrivilege(ProtectionDomain.java:76)
at java.security.ProtectionDomain$JavaSecurityAccessImpl.doIntersectionPrivilege(ProtectionDomain.java:86)
at java.awt.EventQueue$4.run(EventQueue.java:731)
at java.awt.EventQueue$4.run(EventQueue.java:729)
at java.security.AccessController.doPrivileged(Native Method)
at java.security.ProtectionDomain$JavaSecurityAccessImpl.doIntersectionPrivilege(ProtectionDomain.java:76)
at java.awt.EventQueue.dispatchEvent(EventQueue.java:728)
at org.gvsig.andami.ui.AndamiEventQueue.dispatchEvent(AndamiEventQueue.java:50)
at java.awt.EventDispatchThread.pumpOneEventForFilters(EventDispatchThread.java:201)
at java.awt.EventDispatchThread.pumpEventsForFilter(EventDispatchThread.java:116)
at java.awt.EventDispatchThread.pumpEventsForHierarchy(EventDispatchThread.java:105)
at java.awt.EventDispatchThread.pumpEvents(EventDispatchThread.java:101)
at java.awt.EventDispatchThread.pumpEvents(EventDispatchThread.java:93)
at java.awt.EventDispatchThread.run(EventDispatchThread.java:82)
```

Caused by: java.lang.NegativeArraySizeException

```
at
org.gvsig.fmap.dal.feature.paging.impl.FeaturePagingHelperImpl.loadCurrentPageData(FeaturePagingHelperImpl.java:347)
at org.gvsig.tools.dynobject.impl.DefaultDynObjectPagingHelper.setCalculator(DefaultDynObjectPagingHelper.java:168)
at
org.gvsig.tools.dynobject.impl.DefaultDynObjectPagingHelper.setDefaultCalculator(DefaultDynObjectPagingHelper.java:173)
at org.gvsig.fmap.dal.feature.paging.impl.FeaturePagingHelperImpl.reload(FeaturePagingHelperImpl.java:316)
at
org.gvsig.fmap.mapcontrol.dal.feature.swing.table.FeatureTableModel.updatePagingHelperWithHiddenColumns(FeatureTableModel.java:541)
del.java:541)
at
org.gvsig.fmap.mapcontrol.dal.feature.swing.table.ConfigurableFeatureTableModel.initialize(ConfigurableFeatureTableModel.java:368)
va:368)
at org.gvsig.fmap.mapcontrol.dal.feature.swing.table.FeatureTableModel.<init>(FeatureTableModel.java:130)
at org.gvsig.fmap.mapcontrol.dal.feature.swing.table.FeatureTableModel.<init>(FeatureTableModel.java:114)
at org.gvsig.fmap.mapcontrol.dal.feature.swing.table.FeatureTableModel.<init>(FeatureTableModel.java:96)
at
org.gvsig.fmap.mapcontrol.dal.feature.swing.table.ConfigurableFeatureTableModel.<init>(ConfigurableFeatureTableModel.java:87)
:87)
at
org.gvsig.fmap.mapcontrol.dal.feature.swing.table.FeatureStoreModel.getFeatureTableModel(FeatureStoreModel.java:132)
at
org.gvsig.fmap.mapcontrol.dal.feature.swing.table.FeatureStoreModel.getCurrentFeatureTableModel(FeatureStoreModel.java:105)
105)
at
org.gvsig.fmap.mapcontrol.dal.feature.swing.FeatureTypesTablePanel.showFeatureTypeData(FeatureTypesTablePanel.java:154)
54)
at or
```

```
at org.gvsig.fmap.mapcontrol.dal.feature.swing.FeatureTypesTablePanel.initializeUI(FeatureTypesTablePanel.java:197)
at org.gvsig.fmap.mapcontrol.dal.feature.swing.FeatureTypesTablePanel.<init>(FeatureTypesTablePanel.java:124)
at org.gvsig.fmap.mapcontrol.dal.feature.swing.FeatureTypesTablePanel.<init>(FeatureTypesTablePanel.java:114)
at org.gvsig.app.project.documents.table.gui.FeatureTableDocumentPanel.<init>(FeatureTableDocumentPanel.java:81)
... 51 more
```

Si intentas acceder por código `layer.getFeatureStore().getFeatureCount()` devuelve un -1. Esto ya pasaba en la RC2

## Associated revisions

### Revision 297 - 09/04/2017 03:39 PM - Joaquín del Cerro Murciano

refs #4359. Patch provided by Joaquín del Cerro Murciano. Fix sql generation in OGR provider for rows that requier quetes and a problem when calculate the count of features.

## History

### #1 - 11/02/2016 01:37 PM - Francisco Puga

It Still happens in 2.3.1

It neither works trying to show the data of a point with the info tool

INFO [AWT-EventQueue-0] (DefaultActionInfo.java:326) -

org.gvsig.app.mainplugin:org.gvsig.app.extension.ViewControls.execute('view-change-scale', Object[] args)

INFO [AWT-EventQueue-0] (DefaultActionInfo.java:326) -

org.gvsig.app.mainplugin:org.gvsig.app.extension.ViewControls.execute('view-change-scale', Object[] args)

ERROR 1: SQL Expression Parsing Error: syntax error, unexpected DESC. Occured around :

CT ele,time,magvar,geoidheight,name,cmt,desc,src,link1\_href,link1\_text,link1\_type

^

WARN [AWT-EventQueue-0] (OGRFetureSetProvider.java:159) - The result of query is null. SQL SELECT

ele,time,magvar,geoidheight,name,cmt,desc,src,link1\_href,link1\_text,link1\_type,link2\_href,link2\_text,link2\_type,sym,type,fix,sat,hdop,vdop,pdop,ageofdgpsdata

dgpsdata,dgpsid,label,ogr\_geometry FROM 'waypoints' FeatureType

default:[ele,time,magvar,geoidheight,name,cmt,desc,src,link1\_href,link1\_text,link1\_type,link2\_href,link2\_text,link2\_type,sym,type,fix,sat,hdop,vdop,pdop,ageofd

p,ageofdgpsdata,dgpsid,label,ogr\_geometry]

WARN [AWT-EventQueue-0] (OGRFetureSetProvider.java:160) - Getting data without SQL filter

ERROR [AWT-EventQueue-0] (NotificationManager.java:90) - java.lang.RuntimeException

java.lang.RuntimeException

at org.gvsig.tools.dynform.impl.DefaultDynFormManager.createJDynFormSet(DefaultDynFormManager.java:207)

at org.gvsig.tools.dynform.impl.DefaultDynFormManager.createJDynFormSet(DefaultDynFormManager.java:155)

at

org.gvsig.fmap.mapcontrol.swing.dynobject.impl.DefaultLayersDynObjectSetComponent.setCurrentLayerInfoByPoint(DefaultLayersDynObjectSetComponent

ponent.java:194)

at

org.gvsig.fmap.mapcontrol.swing.dynobject.impl.DefaultLayersDynObjectSetComponent.valueChanged(DefaultLayersDynObjectSetComponent.java:254)

54)

at javax.swing.JTree.fireValueChanged(JTree.java:2927)

at javax.swing.JTree\$TreeSelectionRedirector.valueChanged(JTree.java:3391)

at javax.swing.tree.DefaultTreeSelectionModel.fireValueChanged(DefaultTreeSelectionModel.java:635)

at javax.swing.tree.DefaultTreeSelectionModel.notifyPathChange(DefaultTreeSelectionModel.java:1093)

at javax.swing.tree.DefaultTreeSelectionModel.setSelectionPaths(DefaultTreeSelectionModel.java:294)

at javax.swing.tree.DefaultTreeSelectionModel.setSelectionPath(DefaultTreeSelectionModel.java:188)

```
at javax.swing.JTree.setSelectionPath(JTree.java:1634)
at javax.swing.plaf.basic.BasicTreeUI.selectPathForEvent(BasicTreeUI.java:2393)
at javax.swing.plaf.basic.BasicTreeUI$Handler.handleSelection(BasicTreeUI.java:3609)
at javax.swing.plaf.basic.BasicTreeUI$Handler.mousePressed(BasicTreeUI.java:3548)
at java.awt.Component.processMouseEvent(Component.java:6532)
at javax.swing.JComponent.processMouseEvent(JComponent.java:3324)
```

## #2 - 11/02/2016 10:11 PM - Francisco Puga

- Status changed from New to Awaiting response
- File *org.gvsig.gdal.prov.ogr-getfeaturecount.patch* added

Hi again,

I was taking a look at this. It seems that the call to `getLayer().GetFeatureCount(0)` in `OGRDataStoreProvider.getFeatureCount` is returning -1 when the layer comes from gpx or dxf. But it returns the correct result when it comes from spatialite or shp.

The documentation of `ogr.Layer.GetFeatureCount` says something like this:

```
Returns the number of features in the layer. For dynamic databases the
count may not be exact. If bForce is FALSE, and it would be expensive
to establish the feature count a value of -1 may be returned
indicating that the count isn't known. If bForce is TRUE some
implementations will actually scan the entire layer once to count
objects.
```

So it seems that a full scan of the layer is needed in some cases. I provide a patch (against `org.gvsig.gdal-1.0.32`) that takes this into account.

## #3 - 11/02/2016 10:12 PM - Francisco Puga

- File *org.gvsig.gdal.prov.ogr-doblequotes.patch* added

My second issue is that my gpx layer has an attribute / field called "desc". This is a very common field when working with software like GPSBabel.

When opening the attribute table all seems to work, but the following error is logged:

```
ERROR 1: SQL Expression Parsing Error: syntax error, unexpected DESC. Occured around :
```

```
CT ele,time,magvar,geoidheight,name,cmt,desc,src,link1_href,link1_text,link1_typ
```

```
^
```

```
WARN [AWT-EventQueue-0] (OGRFeatureSetProvider.java:159) - The result of query is null. SQL SELECT
```

```
ele,time,magvar,geoidheight,name,cmt,desc,src,link1_href,link1_text,link1_type,link2_href,link2_text,link2_type,sym,type,fix,sat,hdop,vdop,pdop,ageofdgpsdata,dgpsid,ogr_geometry FROM 'waypoints' FeatureType
```

```
default:[ele,time,magvar,geoidheight,name,cmt,desc,src,link1_href,link1_text,link1_type,link2_href,link2_text,link2_type,sym,type,fix,sat,hdop,vdop,pdop,ageofdgpsdata,dgpsid,ogr_geometry]
```

```
WARN [AWT-EventQueue-0] (OGRFeatureSetProvider.java:160) - Getting data without SQL filter
```

When using the info tool to get more data from a point the same error happens but the point is not correctly obtained.

This error comes from `OGRFeatureSetProvider` in `layer = dataSource.ExecuteSQL(sql)`. `desc` is a reserved word in sql so it must be quoted (

[http://gdal.org/ogr\\_sql.html](http://gdal.org/ogr_sql.html)). As the doc says to use reserved words double quotes should be used. I'm not sure way double quotes doesn't work for the fields in the order by query (probably a bug in the version of gdal used).

```
SELECT * FROM layer ORDER BY "my_field" ASC; <-- does not work
```

But it works for the SELECT fields and to quote the layer name. Right now layer name is quoted with single quotes but my patch changes it to double quotes. So everything seems to work except ordering by a field that is a reserved work.

**#4 - 08/29/2017 10:55 AM - Álvaro Anguix**

- Target version set to 2.4.0-2850-final (rev. org.gvsig.desktop-2.0.220)

**#5 - 08/29/2017 10:55 AM - Álvaro Anguix**

- Status changed from Awaiting response to New

A revisar por si se mete en la final. O ver alternativas para trabajar con GPX.

**#6 - 08/29/2017 01:06 PM - Joaquín del Cerro Murciano**

- Target version changed from 2.4.0-2850-final (rev. org.gvsig.desktop-2.0.220) to 2.4.0-2839-RC2 (rev. org.gvsig.desktop-2.0.206)

**#7 - 09/04/2017 02:14 PM - Joaquín del Cerro Murciano**

- Target version changed from 2.4.0-2839-RC2 (rev. org.gvsig.desktop-2.0.206) to 2.4.0-2835 (rev. org.gvsig.desktop-2.0.202)

- Assignee set to Joaquín del Cerro Murciano

**#8 - 09/04/2017 03:40 PM - Joaquín del Cerro Murciano**

- Status changed from New to Fixed

**#9 - 09/11/2017 12:14 PM - Álvaro Anguix**

- Status changed from Fixed to Closed

**Files**

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org.gvsig.gdal.prov.ogr-getfeaturecount.patch	726 Bytes	11/02/2016	Francisco Puga
org.gvsig.gdal.prov.ogr-doblequotes.patch	2.67 KB	11/02/2016	Francisco Puga