

QGIS Application - Feature request #4826

Add python bindings for gps library

2012-01-16 09:20 AM - Marcel Huber

Status: Closed	
Priority: Normal	
Assignee: Marco Hugentobler	
Category: Python plugins	
Pull Request or Patch Supplied: No	Resolution: fixed
Easy fix?: No	Copied to github as #: 14670
Description	
<p>We need to have python bindings available for the gps part of the core libraries (on behalf of Stefan Keller). These binding will be used mainly to listen on QgsGPSCConnection::stateChanged() signals. This is more or less the follow up issue on the developer mailing list thread http://lists.osgeo.org/pipermail/qgis-developer/2012-January/017575.html</p> <p>Therefor I created sip files for some - hopefully all - of the required gps components but as I am new to sip files it might be required that some of the pro's will check the attached files for completeness.</p>	

History

#1 - 2012-01-19 12:28 AM - Paolo Cavallini

- Priority changed from 7 to Normal

#2 - 2012-02-01 03:57 AM - Marco Hugentobler

- Assignee set to Marco Hugentobler

#3 - 2012-02-01 07:32 AM - Marco Hugentobler

Hi Marcel

The patch is applied to master. I'm not a sip expert, however, the best test of the bindings is probably to really use the bindings.

#4 - 2012-02-01 08:49 AM - Alexander Bruy

With this path QGIS won't compile. The error is

```
/usr/share/sip/PyQt4/QtCore/qlist.sip: In function 'int convertTo_QList_0111QgsGPSCConnection(PyObject*, void**, int*, PyObject*):  
/usr/share/sip/PyQt4/QtCore/qlist.sip:195:18: error: cannot convert 'QList<QgsGPSCConnection*>*' to 'QList<const QgsGPSCConnection*>*' in  
assignment
```

#5 - 2012-02-01 06:44 PM - Alister Hood

The full message (on windows):

```
1> sipcorepart0.cpp  
2> Build log was saved at "file://c:\\OSGeo4W\\building\\Quantum-GIS.build\\python\\compile_python_files.dir\\RelWithDebInfo\\BuildLog.htm"  
2> compile_python_files - 0 error(s), 0 warning(s)  
1> C:/OSGeo4W/apps/Python27/sip/PyQt4/QtCore/qlist.sip(195) : error C2440: '=' : cannot convert from 'QList<T> *' to 'QList<T> *'  
1> with
```

```
1> [
1>   T=QgsGPSCConnection *
1> ]
1> and
1> [
1>   T=const QgsGPSCConnection *
1> ]
1> Types pointed to are unrelated; conversion requires reinterpret_cast, C-style cast or function-style cast
1>C:/OSGeo4W/apps/Python27/sip/PyQt4/QtCore/qlist.sip(138) : error C2440: 'initializing' : cannot convert from 'const QgsGPSCConnection *const ' to
'QgsGPSCConnection *'
1> Conversion loses qualifiers
```

#6 - 2012-04-15 10:21 AM - Giovanni Manghi

- *Target version set to Version 2.0.0*

#7 - 2012-07-05 11:37 AM - Alexander Bruy

- *Resolution set to fixed*

- *Status changed from Open to Closed*

As I can see GPS bindings already available in 1.8.0 and master. Please reopen if necessary

Files

GPSBindingsHeadChanges.patch	6.89 KB	2012-01-16	Marcel Huber
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