QGIS Application - Bug report #5879 running from build directory - no python plugins

2012-06-27 05:51 AM - Etienne Tourigny

	Closed			
Priority:	Normal			
Assignee:	Sandro Santilli			
Category:	Python plugins			
Affected QGIS	version:master	Regression ?:	No	
Operating Syste	em:	Easy fix?:	No	
Pull Request or	Patch supplied:	Resolution:		
Crashes QGIS or corru ptis data:		Copied to github a	Copied to github as #: 15338	
Description				
present in the bui				
Perhaps a new "r	nake install-dev" Makefile command coul	d copy the plugins and also oth	er missing things	?
happens unless t	oorts should be moved into classFactory() he plugin is explicitly started". ://lists.osgeo.org/pipermail/qgis-develope	-		
Quoting Martin D	obias			
- when QGIS	is run from build directory, it doesn't copy	the internal		
	is run from build directory, it doesn't copy s to the build output directory - that's why			
python plugin	• • • •	sextante is		
python plugin complaining a	s to the build output directory - that's why	sextante is probably fix		
python plugin complaining a	s to the build output directory - that's why about missing plugin installer. We should o provide an environment that is as simila	sextante is probably fix		
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History

#1 - 2012-10-08 06:53 AM - Sandro Santilli

+1, this is very important for core plugin development

#2 - 2012-10-10 01:31 PM - Sandro Santilli

- Pull Request or Patch supplied changed from No to Yes

So I've done some work to install the db_manager plugin to output/python/plugin/* and to have qgis load it.

The result is two pull requests:

https://github.com/qgis/Quantum-GIS/pull/285

#3 - 2012-10-10 02:28 PM - Sandro Santilli

Alright, I confirm things work with those two pulls above. I can get db_manager loaded from output dir. Next stop will be installing all plugins under output/

?

Ideally we'd have a macro for this on the CMake side, as the db_manager install has been very tedious....

?

Anyway please pull those two branches so I can get back to db_manager hacking when I find the time :)

#4 - 2012-10-10 11:12 PM - Sandro Santilli

I was thinking about two other possible ways to fix this:

- 1. Have the build dir listed in sys.path and plugin_paths, and make sure all sources are also copied to build dir
- 2. Have both the build dir and the source dir listed in sys.path and plugins_path

?

The second option would make the support automatically available to *all* plugins with no need to maintain anything at the plugin-level.

#5 - 2012-10-19 02:25 PM - Sandro Santilli

- % Done changed from 0 to 30

As of 6461a0125b2f83649d1604cbc11fcb6678490ed5 qgis running from build tree would find any python plugin under output/python/plugins. So next thing to do is find an easy way to get plugins under there...

#6 - 2012-10-19 04:18 PM - Sandro Santilli

- % Done changed from 30 to 70

8ca2236134a8d441803c9bdfdfb5dfcbc5536524 provides a PLUGIN_INSTALL macro and makes db_manager use that. All plugins that are to be loaded from build dir should switch to use that macro now, in order for this to be closed

#7 - 2012-10-20 01:01 PM - Sandro Santilli

plugin_installer plugin ready to run from build dir as of f93f844867e0bbecb461ef571f9dc7a6dfdaf3e6

#8 - 2012-10-23 01:36 PM - Sandro Santilli

- % Done changed from 70 to 80

fTools ready with b892a021af26b39285bebe9199c9534deade135d mapserver_export ready with 9a0c4ffdb56765893764ca294088cb0967ca03d4

?

Still left: osm, sextante and sextanteexampleprovider

#9 - 2012-10-23 01:44 PM - Sandro Santilli

9f1351b08b957f76a570d80c2338ec691550d1a2 does osm, so only left is sextante

#10 - 2012-10-25 01:24 AM - Larry Shaffer

- Status changed from Open to Feedback

A current issue regarding the loading of plugins (while running from the build directory) is when plugins are restored on launch of the app. There is currently a goofy fix for this with commits commit:e31fb3c9 and commit: where QgsApplication::pkgDataPath() is temporarily set to something other than QgsApplication::buildSourcePath() when restoring core plugins.

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The reason for that patch: when QgsPluginRegistry::restoreSessionPlugins() is called the Python packages are imported from **QgsApplication::buildSourcePath()/python/plugins** even though that path is **NOT** in sys.path for the interpreter. If QgsApplication::pkgDataPath() is pointed to something other than QgsApplication::buildSourcePath(), or an empty QString, it works. However, **I could find no means by which the interpreter was assigned that module search path**.

?

I have tried:

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- 2 changing the current working directory in C++ and via Python
- ??? setting PYTHONPATH
- setting all kinds of debug output from the interpreter (never shows buildSourcePath()/python/plugins in sys.path)
- ??? giving up
- ?

?

To reproduce the issue, run QGIS from the build directory and then launch DB Manager core plugin. You will get an error about a missing ui_*.py file, because that 'compiled' version of a *.ui file does not exist in source directory, only in the build/output/python/plugins staged version of the plugin.

?

Now, run QGIS again, but with the --noplugins option. This will keep restoreSessionPlugins() from being called. After using Plugin Manager to turn back on DB Manager, launch the plugin and you should not get the error: sys.path is being honored, and the plugin is imported from build/output/python/plugins staged area, as expected.

?

While the current patch works, it requires core plugins to not request QgsApplication::pkgDataPath() when the plugin loads. A better solution is needed.

#11 - 2012-10-25 02:57 AM - Sandro Santilli

- Assignee set to Sandro Santilli
- % Done changed from 80 to 100

Sextante loads as of commit:6ca7ea987d86251ee051b7d7ee974a1e9d78bd8f I think this ticket could be closed, and Larry's findings about plugins restore should be in a separate ticket.

#12 - 2012-11-12 01:17 PM - Sandro Santilli

Larry, did you file a ticket for the plugin restore issue ?

#13 - 2012-12-22 03:34 PM - Larry Shaffer

Sandro Santilli wrote:

Z Larry, did you file a ticket for the plugin restore issue ?

Finally. :^)

#14 - 2014-06-28 07:42 AM - Jürgen Fischer

- Target version changed from Version 2.0.0 to Future Release - Lower Priority

#15 - 2014-06-28 03:12 PM - Sandro Santilli

- Status changed from Feedback to Closed

Given confirmation of Larry this ticket can be closed. Python plugins are loaded fine from build dir.