

QGIS Application - Feature request #3097

Add preference to set/override environment variables

2010-10-08 10:17 AM - William Kyngesburye

Status:	Closed	Resolution: Copied to github as #: 13157
Priority:	Low	
Assignee:		
Category:	GUI	
Pull Request or Patch Supplied:	Yes	
Easy fix?:	No	
Description		
<p>This is mainly for OS X, maybe Windows is similar? Could still be useful on *nix.</p> <p>On OS X, <i>applications</i> don't get any of the shell environment. It's just the way OS X works (generally no need for it from a purely OS X perspective). Applications still know about and can use environment variables, and there is a hidden and little-documented (if at all) method to set them for applications, but it is a hidden plist and really needs 3rd party software to safely and easily edit.</p> <p>Some (many?) Qgis plugins use unix-like tools, like GDAL, and need paths and configuration from the environment. Rather than having every developer remember to add a configuration menu to their plugins when environment variables are needed, I think Qgis needs a preference section to set environment variables that all plugins can use.</p> <p>Maintaining a list of arbitrary user-added variables would be ideal for future flexibility (who knows what a plugin will need). But if security is a concern, at least have a fixed list of common variables, like PATH, java-related, GDAL_SKIP, ...</p>		

Associated revisions

Revision 99edf1de - 2011-12-01 02:15 AM - Giuseppe Sucameli

[BACKPORT] find python on OSX (partially fix #3097)
don't overwrite PATH env var, but append to it.

Revision f093f517 - 2011-12-02 02:02 PM - Giuseppe Sucameli

[BACKPORT] find python on OSX (partially fix #3097)
don't overwrite PATH env var, but append to it.

History

#1 - 2010-10-31 09:37 AM - William Kyngesburye

Specific example: [[GdalTools]]. It does have a path configuration option, for where the GDAL programs are, but it's not enough. There are 2 problems:

- can't find python - the env PATH is empty, except for the configured path, so GDAL python programs can't find python to be able to run. This one is solvable by adding /usr/bin to the configured GDAL path, but a user shouldn't have to do this, and multiple paths in the setting is unintuitive considering that the choose button returns only a single path.
- can't find GDAL python extensions (#3170) - in a normal installation, this works, as GDAL python is in the standard user site-packages folder which python knows about. But when GDAL is bundled in the Qgis standalone application, python does not have the Qgis python folder in its sys.path, and any external python scripts, like many GDAL programs, can't import gdal. (external python scripts don't use the Qgis python interpreter)

#2 - 2011-11-30 05:25 PM - Giuseppe Sucameli

- Assignee deleted (nobody -)
- Pull Request or Patch supplied set to No

William Kyngesburye wrote:

- can't find python - the env PATH is empty, except for the configured path, so GDAL python programs can't find python to be able to run. This one is solvable by adding /usr/bin to the configured GDAL path, but a user shouldn't have to do this, and multiple paths in the setting is unintuitive considering that the choose button returns only a single path.

This part should be fixed in commit 99edf1de05231f422c9f2f6e2110709557f62ea2. I know it's not enough, but I'm working to fix it at all.

#3 - 2011-12-16 01:55 PM - Giovanni Manghi

- Target version changed from Version 1.7.0 to Version 1.7.4

#4 - 2012-04-15 10:10 AM - Giovanni Manghi

- Target version changed from Version 1.7.4 to Version 2.0.0

#5 - 2012-10-06 02:23 AM - Pirmin Kalberer

- Target version changed from Version 2.0.0 to Future Release - Nice to have

#6 - 2013-01-03 02:39 AM - Larry Shaffer

- Status changed from Open to Feedback
- Target version changed from Future Release - Nice to have to Version 2.0.0
- Pull Request or Patch supplied changed from No to Yes

Hi,

I've implemented a version of this in the following pull request:

<https://github.com/ggjs/Quantum-GIS/pull/372>

Please test.

#7 - 2013-04-26 04:12 AM - Matthias Kuhn

- Status changed from Feedback to Closed

Resolved in commit:5cd7dc5

Please reopen if there are still problems.