# Objeck Programming Language

v3.3.8-1 (FastCGI); June 5, 2015

## Release notes

Fixed major bus in the ODBC and Date libraries. Made enhancements to a number of existing class libraries.

Highlights of this release include the following:

1. Fixed memory leaks and error handling in the ODBC APIs **(bug/high)**
2. Fixed cross platform bugs in the ‘System.Time.Date’ class **(bug/high)**
3. Made enhancements to the ‘String’ and ‘CsvTable’ classes **(new)**

Please refer to the [project website](http://www.objeck.org) for additional information about the language. The Programmer’s Guide is located the “doc” directory. Additional examples are available on the [Rosetta Code website](http://rosettacode.org/wiki/Category:Objeck). Please submit bugs to [objeck@gmail.com](mailto:objeck@gmail.com), bug reports are greatly appreciated!!

## Package directories

bin/ – compiler, and FastCGI VM

examples/ – source code examples

lib/ – native runtime library support for add-on packages

## Compiling and executing programs

In order to compile programs outside of the “bin” directory the “OBJECK\_LIB\_PATH” environment variable must be set. When this variable is set all library files must be in the directory specified.

To manually setting the environment paths in Windows:

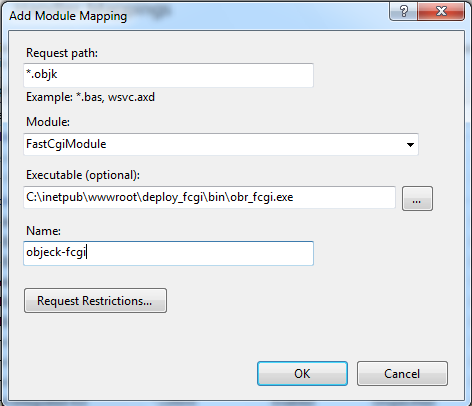
1. set OBJECK\_LIB\_PATH=C:\Documents and Settings\Administrator\objeck-lang\bin
2. set PATH=%PATH%;C:\Documents and Settings\Administrator\ objeck-lang\bin

Comping a simple web program:

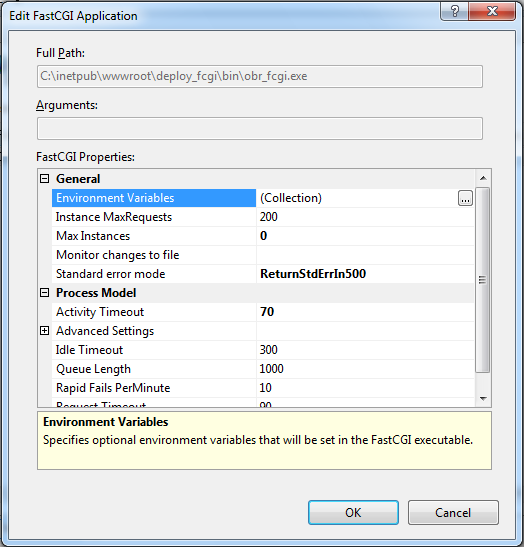
* compiler must be ran outside of IIS wwwroot
* obc -src ..\examples\hello\_fcgi.obs -lib fcgi.obl,collect.obl -tar web -dest ..\hello\_fcgi.obw

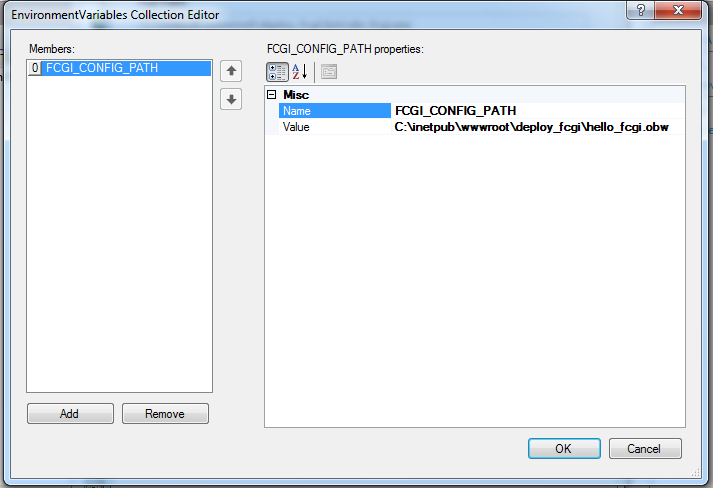
Configuring Objeck FastCGI runtime for IIS:

* What to install
* Copy directory to wwwroot
* Copy \*.obw to wwwroot\deploy\_fcgi
* Copy or create wwwroot\index.objk
* <what to install>; request restrictions 🡪 Mapping: invoke handler file 🡪All verbs 🡪Access: None



* Add module mapping: Yes
* Go to top node (Home) 🡪 FastCGI Settings 🡪 Environment Variables



* Set FCGI\_CONFIG\_PATH property to the location of the web app \*.obw
* 
* Restart IIS

For OS X (10.9 or greater), you’ll need to install OpenSSL in order to use encryption APIs as well as iODBC to enable database support. Please refer to the following [link](http://mac-dev-env.patrickbougie.com/openssl) for OpenSSL directions and this [link](http://www.iodbc.org/dataspace/iodbc/wiki/iODBC/ODBCMacOSX) for about ODBC support.

## Source code

The Objeck source repository is located [here](http://github.com/objeck/objeck-lang) and the source can be fetch using the following command GIT command:

* mkdir objeck
* cd objeck
* git init
* git clone https://github.com/objeck/objeck-lang.git

## Known bugs and limitations

* On Windows, the ODBC driver must be a 32-bit driver for [compatibility](http://stackoverflow.com/questions/1134827/how-do-i-use-a-32-bit-odbc-driver-on-64-bit-server-2008-when-the-installer-doesn).
* Some Redhat based Linux distributions may report errors about heap buffer execution. This is triggered by the JIT compiler’s execution of generated machine code. To resolve this issue please consult the Fedora error console.
* The XML parser class does not support DTDs or DOCTYPE tags
* By design, the regular expression class performs greedy pattern matching.
* All unit tests executed successfully but I'm sure there are some bugs. Send an [e-mail](mailto:objeck@gmail.com) we’ll get them sorted.