Readme

Summary

This is version 0.2 of the Mono PHP Compiler by Raphael Romeikat. It is licensed under the GNU General Public License and can be obtained at http://php4mono.sourceforge.net.

It comes with the files:
```
authors
changelog
mPHP.exe
mPHPRuntime.dll
readme
readme.pdf
```
and with the directory:
```
samples
```

Requirements

The only requirement is Mono in version 1.1.8.3 or higher. No installation is necessary; just make sure the files `mPHP.exe` and `mPHPRuntime.dll` are located in the same directory after downloading. To ensure comfortable usage of the Mono PHP Compiler it is useful to ensure your path contains the Mono binaries directory.

Usage

To compile a PHP script, go to the directory where mPHP.exe is located. Then execute

```
mono mPHP.exe [options] <source file>
```

whereas `options` may be any of

```
-out:<file>              Specifies output file
-target:<kind>           Specifies the target (short: -t:)
                         <kind> is one of: exe, library
-reference:<file list>   References the specified assembly (short: -r:)
                         Files in <file list> separated by , or ;
-nowarn                  Disables warnings
-help                    Displays this usage message (short: -?)
```

Features

The Mono PHP Compiler translates PHP scripts of version 5 to Common Intermediate Language (CIL) and like that enables them to be executable on Mono. Currently not all features of PHP are supported. See below for a more detailed overview.

PHP feature	included	not included
Types	boolean integer float/double string arrays object null mixed	resource number callback
casting	explicit implicit	
variables	local static global	variable variables predefined variables superglobals
constants	standard constants magic constants	
expressions	all expressions	except `...`
operators	all operators	except @
control structures	if else elseif while do for foreach switch try catch	delcare include/require
functions	user defined functions	variable functions built-in functions external modules
classes and objects	inheritance overloading cloning	abstraction interfaces iterators reflection

Examples

This distribution of the Mono PHP Compiler includes a couple of examples. The simplest one demonstrates the compilation and execution of a PHP script on its own. Another one additionally demonstrates how a compiled PHP script can be used from a class written in another .NET language. The other examples show how other .NET libraries can be accessed directly from within a PHP script. For a detailed description of these examples please refer to the file samples.pdf.

Acknowledgement

Raphael Romeikat, March 3rd, 2006