Subject: LuaPlus packages
Posted by gridem on Sat, 20 Jun 2009 13:23:12 GMT
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I've prepared the LuaPlus packages:

1. LuaPlus - the basis package to build lua applications
2. LuaPlusCompiler - lua compiler command line utitily
3. LuaPlusInterpreter - lua interpreter command line utility
4. TestLuaPlus - simple test to demonstrate LuaPlus framework

What is Lua?
Lua is a powerful, fast, lightweight, embeddable scripting language.

Lua combines simple procedural syntax with powerful data description constructs based on associative arrays and extensible semantics. Lua is dynamically typed, runs by interpreting bytecode for a register-based virtual machine, and has automatic memory management with incremental garbage collection, making it ideal for configuration, scripting, and rapid prototyping.

The LuaPlus provides the following functionality:

* All the power of the core Lua 5.1 work distribution.
* An easy to use C++ interface:
    o The C++ interface, described below, masks many of the intricacies of core Lua's underlying low-level C API. In particular, stack management is mostly ignored. Other useful helper classes, such as management of ref'ed objects or the stack, table traversal, and table lookups are provided, dramatically simplifying the application code.
    o Simplified function calling convention. Inspired by, to a limited degree, Python's use of tuples in its C API, the new function calling convention masks the stack pushing and popping associated with the low-level calling convention.
    o A newly added function calling convention enables C++ to call Lua functions as if they were regular C++ functions. This goes a long way to simplifying Lua for C++ users.
    o A transparent C++ functor implementation is in place, allowing function callbacks to be global or static (as they are now), class member functions, or class member virtual functions.
    o Direct registering of C++ functions with LuaPlus. The registered C++ functions do not need to conform to a standard callback declaration.

For more information you may use the following links:
http://www.lua.org/about.html
http://luaplus.org/tiki-index.php?page=LuaPlus+Home+Page

Warning: I've tested these packages only on Windows platform.

File Attachments

1) LuaPlus.zip, downloaded 557 times