
Subject: build2

Posted by [alkema_jm](#) on Sun, 12 Nov 2017 07:29:46 GMT

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CppCon 2016: Boris Kolpackov "Using build2, C++ Build Toolchain"

Build2 has MIT license.

See how build2 works: <https://www.youtube.com/watch?v=hHRaZy1LZPA>

I think that build2 concept could be an supplement of Ultimate++

Could Ultimate++ do the compile example (in youtube) in the same way? N.B. Downgrading a version, and then perform a compile strategy, etc.

Subject: Re: build2

Posted by [alkema_jm](#) on Wed, 06 Dec 2017 12:26:30 GMT

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Hello All,

Looks very promising <https://github.com/Microsoft/vcpkg> (VC++ Packaging Tool)

Code is licensed under the MIT License.

Vcpkg helps you get C and C++ libraries on Windows. This tool and ecosystem are currently in a preview state; your involvement is vital to its success.

Greetings Jan Marco

Appendix A: Download libMysql:

File Attachments

1)

[vcpkg_Windows_package_Manager_open_source_MIT_License_01.gif](#),
downloaded 990 times

❏ Opdrachtprompt

```
C:\dev\persinonet\vcpkg\toolsrc\x64\Debug>vcpkg search mysql
libmariadb      3.0.2      MariaDB Connector/C is used to connect C/C++ applications to MariaDB and MySQL...
libmysql        5.7.17-3   A MySQL client library for C development.

If your library is not listed, please open an issue at and/or consider making a pull request:
  https://github.com/Microsoft/vcpkg/issues

C:\dev\persinonet\vcpkg\toolsrc\x64\Debug>vcpkg list
No packages are installed. Did you mean `search`?

C:\dev\persinonet\vcpkg\toolsrc\x64\Debug>vcpkg install libmysql
The following packages will be built and installed:
  libmysql:x86-windows
Starting package 1/1: libmysql:x86-windows
Building package libmysql:x86-windows...
A suitable version of cmake was not found (required v3.10.0). Downloading portable cmake v3.10.0...
A suitable version of git was not found (required v2.15.0). Downloading portable git v2.15.0...
-- CURRENT_INSTALLED_DIR=C:/dev/persinonet/vcpkg/installed/x86-windows
-- DOWNLOADS=C:/dev/persinonet/vcpkg/downloads
-- CURRENT_PACKAGES_DIR=C:/dev/persinonet/vcpkg/packages/libmysql_x86-windows
-- CURRENT_BUILDTREES_DIR=C:/dev/persinonet/vcpkg/builtrees/libmysql
-- CURRENT_PORT_DIR=C:/dev/persinonet/vcpkg/ports/libmysql/
-- Downloading https://github.com/mysql/mysql-server/archive/mysql-5.7.17.tar.gz...
-- Downloading https://github.com/mysql/mysql-server/archive/mysql-5.7.17.tar.gz... OK
-- Testing integrity of downloaded file...
-- Testing integrity of downloaded file... OK
-- Extracting source C:/dev/persinonet/vcpkg/downloads/mysql-server-mysql-5.7.17.tar.gz
-- Extracting done
-- Applying patch C:/dev/persinonet/vcpkg/ports/libmysql/boost_and_build.patch
-- Applying patch C:/dev/persinonet/vcpkg/ports/libmysql/boost_and_build.patch done
-- Configuring x86-windows-rel
-- Configuring x86-windows-rel done
-- Configuring x86-windows-dbg
-- Configuring x86-windows-dbg done
-- Build x86-windows-rel
-- Build x86-windows-rel done
-- Build x86-windows-dbg
-- Build x86-windows-dbg done
-- Performing post-build validation
-- Performing post-build validation done
Building package libmysql:x86-windows... done
Installing package libmysql:x86-windows...
Installing package libmysql:x86-windows... done
Elapsed time for package libmysql:x86-windows: 49.17 min

Total elapsed time: 49.17 min

C:\dev\persinonet\vcpkg\toolsrc\x64\Debug>vcpkg
Commands:
  vcpkg search [pat]           Search for packages available to be built
  vcpkg install <pkg>...      Install a package
  vcpkg remove <pkg>...       Uninstall a package
  vcpkg remove --outdated     Uninstall all out-of-date packages
  vcpkg list                   List installed packages
  vcpkg update                 Display list of packages for updating
  vcpkg hash <file> [alg]     Hash a file by specific algorithm, default SHA512
  vcpkg help topics           Display the list of help topics
  vcpkg help <topic>          Display help for a specific topic

  vcpkg integrate install     Make installed packages available user-wide. Requires admin privileges on first use
  vcpkg integrate remove      Remove user-wide integration
  vcpkg integrate project     Generate a referencing nuget package for individual VS project use
  vcpkg integrate powershell Enable PowerShell Tab-Completion

  vcpkg export <pkg>... [opt]... Exports a package
  vcpkg edit <pkg>            Open up a port for editing (uses %EDITOR%, default 'code')
  vcpkg import <pkg>          Import a pre-built library
  vcpkg create <pkg> <url>
                               [archivename]
                               Create a new package
  vcpkg owns <pat>            Search for files in installed packages
  vcpkg cache                  List cached compiled packages
  vcpkg version                Display version information
  vcpkg contact                Display contact information to send feedback
```

Subject: Re: build2

Posted by [alkema_jm](#) on Sat, 27 Jan 2018 12:43:24 GMT

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Hello Everyone,

Learn how Vcpkg can help you rebuild C++ Libraries in Windows. This looks awesome (to me). I hope some feedback of Ultimate++ developers (about vcpkg)?

<https://www.youtube.com/watch?v=zo6nqFVBd5o>

Greeting Jan Marco

Subject: Re: build2

Posted by [mr_ped](#) on Sun, 28 Jan 2018 00:36:51 GMT

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So is this some kind of "repository"?

Who's signing/checking/publishing the files? Can authors of library publish directly? How is the originality of files authenticated? etc..

Looks similar to what we have in normal OS, but I personally prefer to build from sources as much as possible, due to review/security/preservation reasons, so I'm not big fan of things like maven or even "-dev" libraries packages in linux repositories, although already 98% of SW in my PC is from the distribution repository, so if it gets compromised, I will be probably hit much much sooner on regular SW than building compromised binary due to modified library.

Anyway, looks interesting, but I don't need to build anything for windows, so I will pass on this one.

Subject: Re: build2

Posted by [alkema_jm](#) on Sun, 04 Feb 2018 10:51:21 GMT

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Hello mr_ped ,

Thank you for your feedback

"A software repository, colloquially known as a "repo" for short, is a storage location from which software packages may be retrieved and installed on a computer. See https://en.wikipedia.org/wiki/Software_repository

>So is this some kind of "repository"?

No, Vcpkg is a (C++) Packaging Tool (on Windows platform) 'like' "apt-get install" on Linux platform . It is a tool on top of Cmake and GIT. It installs cmake and git on windows. It has more than 600 'portfiles' to make projects:

Who's signing/checking/publishing the files?

Source code is in the projects githubs.

The ("cmake") port files for libssh2, mysql, other github-projects can be pushed to the Vcpkg github.

>Can authors of library publish directly?

See <https://github.com/Microsoft/vcpkg/blob/master/docs/examples/packaging-zlib.md>
For example:

```
PS D:\src\vcpkg> .\vcpkg create zlib2 http://zlib.net/zlib-1.2.11.tar.gz zlib-1.2.11.zip
-- Using pre-downloaded: C:\dev\persinfont\vcpkg\downloads\zlib-1.2.11.zip
-- If this is not desired, delete the file and C:\dev\persinfont\vcpkg\ports\zlib2
-- Generated portfile: C:\dev\persinfont\vcpkg\ports\zlib2\portfile.cmake
-- Generated CONTROL: C:\dev\persinfont\vcpkg\ports\zlib2\CONTROL
-- To launch an editor for these new files, run
-- .\vcpkg edit zlib2
```

The port files will be stored at your local system.

>How is the originality of files authenticated? etc..

The port files can be put in local GIT with GIT-authentication.

You can look to (<https://www.youtube.com/watch?v=a9PJnJhk1GI>) for (general) information about "Hardening Open Source Development".

>Looks similar to what we have in normal OS, but I personally prefer to build from sources as much as possible, due to review/security/preservation reasons, so I'm not big fan of things like maven or even "-dev" libraries packages in linux repositories, although already 98% of SW in my PC is from the distribution repository, so if it gets compromised.

Well, since you asked, build2 bpkg does this for Windows, Linux, Mac OS, and FreeBSD, currently.

See https://www.reddit.com/r/cpp/comments/5ud9sr/if_youre_doing_windows_dev_and_not_using_vcpkg/ :

"The main difference is that it builds everything from source using exact compiler/version/options that you use for your application."

Than build 2 <https://build2.org/> is the tool for you!

>I will be probably hit much much sooner on regular SW than building compromised binary due to

modified library.

Anyway, looks interesting, but I don't need to build anything for windows, so I will pass on this one.

FYI: Build2 is Multi platform if you want to Packaging your projects on Multi platforms.

Greetings Jan Marco

File Attachments

1) [vcpkg_PackagingTool.jpg](#), downloaded 927 times

376	libspatialite	4.3.0a	SpatiaLite is an open source library intended to ex
377	libssh	0.7.5-1	libssh is a multiplatform C library implementing th
378	libssh2	1.8.0-3	The SSH library
379	libstemmer	2017-9-3	Snowball is a small string processing language desi
380	libtheora	1.2.0alpha1-2...	Theora is a free and open video compression format
381	libtorrent	1.1.6	An efficient feature complete C++ BitTorrent implem
382	libunibreak	4.0-1	an implementation of the line breaking and word bre
383	libusb	1.0.21-fc99620	A library for USB device access from Windows usersp
384	libusb-win32	1.2.6.0-1	Allows user space applications to access many USB d
385	libuv	1.18.0	libuv is a multi-platform support library with a fo
386	libvorbis	1.3.5-143caf4-3	Ogg Vorbis is a fully open, non-proprietary, patent
387	libvpx	1.6.1-1	The reference software implementation for the video
388	libwebm	1.0.0.27-2	WebM File Parser
389	libwebp	0.6.1	Lossy compression of digital photographic images.
390	libwebsockets	2.4.1	Libwebsockets is a lightweight pure C library built
391	libxml2	2.9.4-2	Libxml2 is the XML C parser and toolkit developed f
392	libxmp-lite	4.4.1	Lightweight version of libxmp that supports MOD, S3
393	libxslt	1.1.29	Libxslt is a XSLT library implemented in C for XSLT
394	libzip	1.4.0	A library for reading, creating, and modifying zip
395	live555	2017.10.28	A complete RTSP server application
396	llvm	5.0.1	The LLVM Compiler Infrastructure
397	lmdb	0.9.18-3	LMDB is an extraordinarily fast, memory-efficient d
398	lodepng	2017-09-01-8a...	PNG encoder and decoder in C and C++
399	log4cplus	REL_2_0_0-RC2	A simple to use C++ logging API providing thread--s
400	lpeg	1.0.1-3	LPeg is a pattern-matching library for Lua, based o
401	lua	5.3.4-4	a powerful, fast, lightweight, embeddable scripting
402	luafilesystem	1.7.0.2	LuaFileSystem is a Lua library developed to complem
403	luajit	2.0.5	LuaJIT is a Just-In-Time (JIT) compiler for the Lua
404	luasocket	2017.05.25.5a...	LuaSocket is a Lua extension library that is compos
405	luaunit	1.0.1-0	luaunit is a Lua unit testing library providing a simp
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614	luaunit	1.0.1-0	luaunit is a Lua unit testing library providing a simp
615	wincrypt	0.0-1	Windows Cryptography.
616	winpcap	4.1.3-1	WinPcap is the industry-standard tool for link-laye
617	winsock2	0.0-1	Windows Sockets.
618	wt	3.3.7-4	Wt is a C++ library for developing web applications
619	wtl	9.1	Windows Template Library (WTL) is a C++ library for
620	wxwidgets	3.1.0-1	wxWidgets is a widget toolkit and tools library for
621	xalan-c	1.11-1	Xalan is an XSLT processor for transforming XML doc
622	xerces-c	3.1.4-3	Xerces-C++ is a XML parser, for parsing, generating
623	xlnt	1.2.0-1	Cross-platform user-friendly xlsx library for C++14
624	xxhash	0.6.4	Extremely fast hash algorithm
625	yaml-cpp	0.5.4-rc-2	yaml-cpp is a YAML parser and emitter in C++ matchi
626	yoga	1.7.0	Yoga is a cross-platform layout engine which implem
627	zeromq	20170908-1849...	The ZeroMQ lightweight messaging kernel is a librar
628	zlib	1.2.11-3	A compression library
629	zstd	1.3.3	Zstandard - Fast real-time compression algorithm ht
630	zziplib	0.13.62-1	library providing read access on ZIP-archives
631			
632	If your library is not listed, please open an issue at and/or consider making a pull requ		
633	https://github.com/Microsoft/vcpkg/issues		
634			