
Subject: Static Binary
Posted by [jheblack](#) on Thu, 27 Sep 2012 22:01:40 GMT
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What Non-BSD licensed libraries are compiled into an U++ static binary?

Subject: Re: Static Binary
Posted by [koldo](#) on Fri, 28 Sep 2012 06:21:01 GMT
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Hello jheblack

AFAIK all libraries compiled into an U++ exe have BSD compatible licenses.

In some cases there are LGPL libraries like SDL. Those are not used in main U++ packages like Core or CtrlLib and are included as dynamic libraries as DLL in Windows.

Subject: Re: Static Binary
Posted by [jheblack](#) on Fri, 28 Sep 2012 07:19:10 GMT
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Well if that's right then the U++ framework is like FLTK (<http://www.fltk.org/>) -- "modular enough to be statically linked" -- No?

Subject: Re: Static Binary
Posted by [jheblack](#) on Fri, 28 Sep 2012 07:31:58 GMT
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@koldo, I'm fairly skeptical (by the way) since like -- it seems that 'a lot' of these failed (OR WHATEVER) GUI Toolkits never advertise the fact that they are full of GPL/LGPL dependencies that are not to be 'statically linked' OR WHATEVER.... If I had to deploy "dynamically linked libraries" along with a 'static exe/so' -- that's more of a pain than releasing a JAVA app Dependant on JUST ONE JRE download/install. O.K.?

Subject: Re: Static Binary
Posted by [koldo](#) on Fri, 28 Sep 2012 20:06:33 GMT
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Hello jheblack

In the last five years I have deployed stand alone U++ exes to different users, no programming geeks, inside and outside my company, with installers or just naked executables.

No need of DLLs, believe me .

Subject: Re: Static Binary

Posted by [nneilson](#) on Fri, 28 Sep 2012 20:48:41 GMT

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jheblack wrote on Fri, 28 September 2012 00:31 -- that's more of a pain than releasing a JAVA app Dependant on JUST ONE JRE download/install. O.K.?

I do programming in Java by necessity and C++ in U++ for power, speed, memory, threads, OpenGL v jogl 32/64, etc..

Read the java acceptance/again.

Java can be 'decompiled' too easily.

It is just a matter of choice.

Subject: Re: Static Binary

Posted by [jheblack](#) on Fri, 28 Sep 2012 21:43:57 GMT

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Hello nneilson

Thanks for that part about DE-compilation though my fascination is not that but 'tampering' of the Static Binary's textual data. There are too many tales about changing strings in binaries so that is why.

@KOLDO, Thank you! Do your "naked" executables take up more than 10 Mega-bytes??? 'Qt' had my hopes up until I personally "Did The Math" to determine that in order to deploy 'Qt' as a deliverable, it would not be less than 10 Mega-bytes... Too bad for 'Qt'... I switched to Boost/Standard C++/ICU instead for all but the GUI; after wasting time on the GUI OR WHATEVER.

10 Mega-bytes is my 'absolute', hard file size top-- by the way for the "naked" executable -- combined and all DLLs that must be deployed. Why? It is a business decision.

Subject: Re: Static Binary

Posted by [dolik.rce](#) on Fri, 28 Sep 2012 22:57:22 GMT

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jheblack wrote on Fri, 28 September 2012 23:43:10 Mega-bytes is my 'absolute', hard file size top-- by the way for the "naked" executable -- combined and all DLLs that must be deployed. Why? It is a business decision.

TheIDE, which is quite complex application, takes up 5.1 MB on windows. No additional libraries are necessary

Honza

Subject: Re: Static Binary

Posted by [jheblack](#) on Fri, 28 Sep 2012 23:32:34 GMT

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Hello Honza

On windows, TheIDE is 5.1 MB without compression; uncompressed?

Subject: Re: Static Binary

Posted by [nneilson](#) on Sat, 29 Sep 2012 06:00:13 GMT

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What physical platform are you on?

In another post you mentioned Lubuntu OS.

If your unit had access for a micro SD card the size of your app would be almost irrelevant.

I was concerned about size before wasting time getting a primary app below 5MB and now 10MB with no concern. Then a few U++ apps at ~1-2MB.

On a micro SD card of 32GB and 9GB of data the app sizes are not much of a concern. Even the smart phones with 4G the time to transfer an app of 10-20MB is not a problem.

What is the main constraint that keeps you at 10MB?

edit: Regardless of what your app is intended to be used on don't you have access to something else to do your programming on?

What is the size of the jre/JVM needed?

I tinkered with Excelsior JET which is very good at keeping the total size down for an app but it is expensive. There are others:

http://en.wikipedia.org/wiki/List_of_Java_virtual_machines

Java in some respects is easier to program with than C++ but using U++ (once you get familiar with it) that is a different story.

As I mentioned in a previous post it is a matter of choice.

Subject: Re: Static Binary

Posted by [dolik.rce](#) on Sat, 29 Sep 2012 06:18:39 GMT

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jheblack wrote on Sat, 29 September 2012 01:32Hello Honza

On windows, TheIDE is 5.1 MB without compression; uncompressed?It is what comes out from MSVC compiler, with no further actions applied, so I believe it is uncompressed.

Honzs

Subject: Re: Static Binary

Posted by [jheblack](#) on Sat, 29 Sep 2012 06:47:13 GMT

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Hello nneilson

I am on Intel. In a perfect world, though I would be running BSD not Lubuntu. "The main constraint" for the 10MB top I speak of for this "Static Binary" -- the subject of this Post would be *Google App Engine's* file size limit or any other arbitrary business decision regarding file size downloads.

Regarding Intel, I "hacked" intel threading building blocks (TBB) once, but it was more than I needed (AND STUPID TOO) so I dumped it. We're talking about Intel Threading Building Blocks now.

Back to U++, can a newbie such as myself figure out how to include only the GUI related classes OR does everything get dumped into a U++ executable? (NOTE: I still have doubts.) I am assuming that only the used GUI classes get put into a U++ executable but because I am stupid, I have to ask here.

People are telling me that U++ doesn't have any dependencies I think. That is absurd, but like I said I'm stupid. I ran ldd on Linux once on a U++ executable and saw many, many foreign dependencies outside of U++ that frightened me greatly.

Following that, I had to immediately erase my entire operating system.

Carrying around a USB stick (Is that what a SD card is?) is not something I would be an advocate for though I do advocate.

Goodbye All

Subject: Re: Static Binary
Posted by [nneilson](#) on Sat, 29 Sep 2012 07:47:10 GMT
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It seems like you are pretty sharp.

Google's 10MB clarifies the size.

The GUI code is usually included in the U++ .exe
Without an idea of what kind of GUI you intend to use it is hard to even guess.

A micro SD card is about 1/2 x 3/8 x 1/32 inch, quite small.

Many cell phones use them for the camera photos.
Most tablet, slate. etc. have slots for SD cards, some full size but when you buy a micro it usually comes with an adapter.
32GB micro on sale at Fry's for \$12.

One exception is many Apple devices where they charge by installed memory, no sd slot more \$\$\$.

Subject: Re: Static Binary
Posted by [dolik.rce](#) on Sat, 29 Sep 2012 08:36:12 GMT
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jheblack wrote on Sat, 29 September 2012 08:47Back to U++, can a newbie such as myself figure out how to include only the GUI related classes OR does everything get dumped into a U++ executable? (NOTE: I still have doubts.) I am assuming that only the used GUI classes get put into a U++ executable but because I am stupid, I have to ask here.The GUI classes (and lot of others too) are implemented as templates, so only those actually used are present in the resulting binary. Aside from that, U++ is modular so only those packages that you use are compiled. E.g.: if you don't need CodeEditor widget in your app, you just don't add the package and you save both compile time and result size.

jheblack wrote on Sat, 29 September 2012 08:47People are telling me that U++ doesn't have any dependencies I think. That is absurd, but like I said I'm stupid. I ran ldd on Linux once on a U++ executable and saw many, many foreign dependencies outside of U++ that frightened me greatly. Every software has dependencies U++ has fortunately very little. On windows, it depends AFAIK only on DLLs that come with windows installation, so you don't have to distribute them. On Linux, we use a few external libraries, but all of them are standard things present on 99% of computers anyway (e.g. libpng), so it is not a big deal as well. Number of the dependencies can be reduced by using flags, most notably NOGTK flag prevents against using anything GTK related, greatly reducing the number of shared libraries used. See attached file for comparison between normal, NOGTK and command line application. There is really nothing scary in the list of libs needed to run NOGTK variant of TheIDE

Honza

File Attachments

1) [ldd.txt](#), downloaded 350 times
