
Subject: Theide is linked with unnecessary libs on linux

Posted by [dolik.rce](#) on Fri, 02 Apr 2010 16:22:19 GMT

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Hi,

I discovered interesting thing today, concerning library dependencies on linux. Theide is linked with 26 libraries (with GUI,MT flags): atk-1.0, cairo, dl, fontconfig, freetype, gdk-x11-2.0, gdk_pixbuf-2.0, glib-2.0, gmodule-2.0, gobject-2.0, gtk-x11-2.0, m, pango-1.0, pangocairo-1.0, png, pthread, X11, Xcursor, Xext, Xfixes, Xft, Xi, Xinerama, Xrandr, Xrender and z Now the interesting part: 13 (yes, that is 50%) out of them is not used at all! They are: atk-1.0, cairo, dl, glib-2.0, gmodule-2.0, pango-1.0, pangocairo-1.0, Xcursor, Xext, Xfixes, Xi, Xinerama and Xrandr

I found that (again) while building debian packages, if you are interested in details, see this buildlog (it is rather long, search for dpkg-shlibdeps). Being a bit suspicious about debian automated tools, I checked on my machine using export makefile, with above listed libraries removed from linking step. The resulting binary was working flawlessly as far as I can tell, so the libs are probably really not needed.

My guess is that the dependencies were added a long time ago, before restructuring Draw and other great improvements in the history of U++, but the dependency rules were never updated. Having as few dependencies as possible is one of the U++ goals... So this might be called a bug.

Best regards,
Honza

Subject: Re: Theide is linked with unnecessary libs on linux

Posted by [Novo](#) on Thu, 08 Apr 2010 04:49:23 GMT

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The easiest way to find real dependencies on Linux is to call "ldd path_to_your_app_here".

Subject: Re: Theide is linked with unnecessary libs on linux

Posted by [dolik.rce](#) on Fri, 09 Apr 2010 18:09:42 GMT

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Novo wrote on Thu, 08 April 2010 06:49The easiest way to find real dependencies on Linux is to call "ldd path_to_your_app_here".

Hi Novo,

Thanks for hint Executing ldd with -u to list unused libraries confirms what I said in the first post: \$ ldd -u /usr/bin/theide
Unused direct dependencies:

/usr/lib/libX11.so.6
/usr/lib/libXcursor.so.1
/usr/lib/libXext.so.6
/usr/lib/libXfixes.so.3
/usr/lib/libXft.so.2
/usr/lib/libXi.so.6
/usr/lib/libXinerama.so.1
/usr/lib/libXrandr.so.2
/usr/lib/libXrender.so.1
/usr/lib/libatk-1.0.so.0
/usr/lib/libcairo.so.2
/lib/libdl.so.2
/usr/lib/libfontconfig.so.1
/usr/lib/libfreetype.so.6
/usr/lib/libgdk-x11-2.0.so.0
/usr/lib/libgdk_pixbuf-2.0.so.0
/usr/lib/libglib-2.0.so.0
/usr/lib/libgmodule-2.0.so.0
/usr/lib/libgobject-2.0.so.0
/usr/lib/libpango-1.0.so.0
/usr/lib/libpangocairo-1.0.so.0
/usr/lib/libpng12.so.0
/lib/libpthread.so.0
/usr/lib/libz.so.1
/lib/libm.so.6
/usr/lib/libgcc_s.so.1

Honza
