
Subject: Re: Upp 2007.1rc2 released
Posted by [guido](#) on Sat, 24 Feb 2007 00:42:31 GMT
[View Forum Message](#) <> [Reply to Message](#)

luzr wrote on Fri, 23 February 2007 22:58

Uh oh... That is really strange as gtk uses libpng. In fact, I cannot link with gtk when I have png as statically linked package.

Real showstopper.

Actually, gtk didn't link directly to libpng in the past.
The dependency was hidden by dlopen()ing the pixbuf loader.
It comes from cairo! But cairo can and should be hidden from the linker, as it is an optional backend.
So you use --as-needed linker flag when compiling gtk and thus cairo and with it libpng disappear as link time dependencies.
That's the case for the LSB sandbox, apparently:
guido@Sid:~\$ export PKG_CONFIG_PATH=/opt/lsb/lib/pkgconfig/
guido@Sid:~\$ pkg-config --libs gtk+-2.0
-Wl,--export-dynamic -L/opt/lsb/lib -lgtk-x11-2.0
-lgdk-x11-2.0 -lX11 -latk-1.0 -lgdk_pixbuf-2.0 -lm -lpangoxft-1.0
-lpangoft2-1.0 -lpango-1.0 -lgobject-2.0 -lgmodule-2.0 -ldl -lglib-2.0
guido@Sid:~\$ pkg-config --cflags gtk+-2.0
-DXTTHREADS -D_REENTRANT -DXUSE_MTSAFE_API
-I/opt/lsb/include/gtk-2.0 -I/opt/lsb/lib/gtk-2.0/include
-I/usr/X11R6/include -I/opt/lsb/include/atk-1.0
-I/opt/lsb/include/pango-1.0 -I/usr/include/freetype2
-I/usr/include/freetype2/config -I/opt/lsb/include/glib-2.0
-I/opt/lsb/lib/glib-2.0/include

--as-needed doesn't only get rid of fake dependencies,
but also in the course cuts off from startup time.
Why regular Debian gtk isn't compiled like that, only
the pundits know.

Guido