
Subject: Re: MILESTONE: gtk3 replaces gtk2 as default linux backend

Posted by [amrein](#) on Mon, 20 Jan 2020 19:51:34 GMT

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All POSIX OS have pkg-config in their repository. You must install pkg-config manually (using the distro package manager) as it's not installed by default when you install other devel packages. If so, this dependency need to be added in docs.

The main idea of using pkg-config is to have dynamic cflags and libs on any POSIX OS I guess.

So for me, the best strategy would be to add LDLIBS in Makefile using pkg-config (after CINC and at link time):

```
CINC = -I./ `pkg-config --cflags freetype2` `pkg-config --cflags x11` `pkg-config --cflags fontconfig` `pkg-config --cflags xcb` `pkg-config --cflags expat` `pkg-config --cflags libpng` `pkg-config --cflags xinerama` `pkg-config --cflags xrender` `pkg-config --cflags xft` `pkg-config --cflags xdmcp` `pkg-config --cflags xext` `pkg-config --cflags gtk+-3.0` `pkg-config --cflags libnotify`
```

```
LDLIBS = `pkg-config --libs freetype2` `pkg-config --libs x11` `pkg-config --libs fontconfig` `pkg-config --libs xcb` `pkg-config --libs expat` `pkg-config --libs libpng` `pkg-config --libs xinerama` `pkg-config --libs xrender` `pkg-config --libs xft` `pkg-config --libs xdmcp` `pkg-config --libs xext` `pkg-config --libs gtk+-3.0` `pkg-config --libs libnotify` -lbz2 -lpthread -ldl -lrt -lz
```

```
...  
$(OutDir_plugin_bmp)BmpReg.o \  
$(OutDir_plugin_bmp)bmp.a \  
$(OutDir_RichText)RichText.a \  
$(LDLIBS) -Wl,--end-group
```

That way, it easier for external script like domake to change Makefiles configuration dynamically using its own CINC and LDLIBS.

Note: It would be even more fun to use Flags to switch Makefile from one configuration to another but my investigation in this area showed several flaws because of POSIX gmake differences between OS.