Subject: How to use third party libraries? (Newbie alert!) Posted by Alatius on Fri, 05 May 2006 22:00:26 GMT View Forum Message <> Reply to Message

This question may sound a bit naive, but I hope you can bear with me, and that you, in case my question demands too long an answer, at least may be able to point me in the right direction... For you to understand my question better, it should be noted that, while I am not new to programming, I have never developed a GUI application in C++ before, or for that matter any moderately complicated project. My understanding of, for example, the inner working of the process of "linking" files, is what I describe as sketchy, at best. On top of this, I have just recently switched to Linux (Ubuntu), so I am a bit of a newbie in that regard as well.

Anyhow, my question is, simply, how do I make use of a third party library in my project? To take a concrete example, I want to use functions provided by the libsndfile library (http://www.mega-nerd.com/libsndfile/), (which is written in C, but I hope that won't be a problem). Instead of downloading the tar-file from that site, I installed the library through Synaptic (Ubuntu's package manager), specifically the packages libsndfile1 and libsndfile1-dev. So far, so good (I guess.) Of the files that got installed on my system, I guess these are relevant:

From libsndfile1 (is it necessary, by the way?): /usr/lib/libsndfile.so.1.0.10 /usr/lib/libsndfile.so.1

From libsndfile1-dev: /usr/include/sndfile.h /usr/lib/libsndfile.a /usr/lib/libsndfile.la /usr/lib/libsndfile.so /usr/lib/pkgconfig /usr/lib/pkgconfig/sndfile.pc

Now, when I want to use this library, I start to get problems though. I tried to add #include <sndfile.h> to the top of my main.cpp, but this alone won't quite do it, it seems, as, during the linking phase, I get some errors:

"Linking...

/home/alatius/upp/out/test1/GCC32.Debug_full.Gui.Main.Shared /main.o: In function "test1": /home/alatius/upp/MyApps/test1/main.cpp:236: undefined reference to `sf_command' /home/alatius/upp/MyApps/test1/main.cpp:236: undefined reference to `sf_command' collect2: Id returned 1 exit status"

(Here, line 236 contains the call "sf_command (NULL, SFC_GET_LIB_VERSION, buffer, sizeof (buffer));", copied straight from the sndlib documentation.)

Well, I don't really know what to do now, I'm afraid. Do I have to somehow add the library to my project in TheIDE? Or somehow tell the linker where to find sndlib?