

TEACHING_TOOL_FAQ File

Installing the Raquel GUI/Teaching Tool

Q: I received the error '*/usr/bin/ld: cannot find -ltcl*' when performing the make command. What is this and how can I fix it?

A: This is thrown because the compiler cannot find the Tcl runtime libraries in either '*usr/lib*' or '*usr/local/lib*' and is usually caused because the Tcl runtime library package has not been installed. To check, look in the '*usr/lib*' and/or '*usr/local/lib*' directories for the file '*libtclX.Y.so.0*' or '*libtclX.Y.so*' (where X is the major version and Y the minor version). If it is not there, Tcl is not installed. It can either be downloaded from the Tcl/Tk website (www.tcl.tk) or through your Linux package manager.

If Tcl is installed but the error occurs, the problem could be the naming of the file. The Tcl code of the Raquel GUI/Teaching Tool may require a runtime library file named '*libtcl.so*'; if only '*libtclX.Y.so.0*' / '*libtclX.Y.so*' exists and not '*libtcl.so*', the error will arise. (Research has shown that this error can occur on Debian and SuSe versions of Linux). To rectify the problem, create a softlink called '*libtcl.so*' that points to '*libtclX.Y.so.0*' / '*libtclX.Y.so*'; for example, with the command

`ln -s libtclX.Y.so.0 libtcl.so`.

See the TCLTK_ON_LINUX documentation file for further details.

Please read the next Q and A before proceeding as they are linked issues.

Q: I received the error '*/usr/bin/ld: cannot find -ltk*' when performing the make command. What is this and how can I fix it?

A: This is caused by the same problem as above; the compiler cannot locate the Tk runtime libraries. Follow the steps above replacing '*libtcl*' with '*libtk*' in all instances. Again the software for Tk can be found at the Tcl website (www.tcl.tk).

Q: I received the error '*cannot find tk.h in the reference...*' while trying to compile the program. How can I fix this?

A: This issue was fixed in the latest version of the RaquelTeachingTool. Please refer to the download section and download the latest version. tk.h is part of the Tk development package and as such is not included as part of the runtime files. This can be solved by downloading the Tk development package from the Tcl website (www.tcl.tk).

Q: What packages are required to compile the RaquelTeachingTool?

A: From a basic installation of Debian the following packages were required to install the tool (all of which are readily available from the inbuilt 'Synaptic Package Manager') :

- binutils
- g++-4.3
- gcc
- gcc-4.3
- libc6-dev
- libgomp1
- libstdc++6-4.3-dev
- linux-libc-dev
- make
- tcl8.5
- tk8.5