GLroboop - Installation Guide

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1 Introduction

The program GLroboop requires wxWidgets and ROBOOP. You have to download the latest stable version (2.6.X) of wxWidgets, ROBOOP and GLroboop.

2 MS Windows

Under MS Windows, you need to set the environment variable WXWIN to the location of wxWidgets. You need the following subdirectories to be located in same the directory:

- roboop: the ROBOOP directory;
- GLroboop: the GLroboop directory.

For MS Visual C++, you also need to have in the same directory

• wx: the wxWidgets directory;

You need to enable OpenGL support in wxWidgets. To do so, in the wxWidgets directory edit the file:

include\wx\msw\setup.h

to have (line 854 in the 2.6.3 release)

#define wxUSE_GLCANVAS 1

2.1 MS Visual C++ 6.0 and .NET

In the wxWidgets directory, open the workspace:

build\msw\wx.dsw

Using the Build -> Batch Build menu option, select the following targets:

- wxregex Win32 Unicode Release, wxregex Win32 Unicode Debug,
- wxzlib Win32 Unicode Release, wxzlib Win32 Unicode Debug.
- wxpng Win32 Unicode Release, wxpng Win32 Unicode Debug,
- wxjpeg Win32 Unicode Release, wxjpeg Win32 Unicode Debug,
- wxtiff Win32 Unicode Release, wxtiff Win32 Unicode Debug,
- wxexpat Win32 Unicode Release, wxexpat Win32 Unicode Debug,
- base Win32 Unicode Release, base Win32 Unicode Debug,
- core Win32 Unicode Release, core Win32 Unicode Debug,
- adv Win32 Unicode Release, adv Win32 Unicode Debug,
- gl Win32 Unicode Release, gl Win32 Unicode Debug.

Do not select the DLL targets. Then, build the libraries. Be patient, depending on your computer, this process can take a while !

In the ROBOOP directory, open the workspace:

roboop.dsw

Using the Build -> Batch Build menu option, select all the targets. Then, build the targets.

Finally, in the GLroboop directory, open the workspace:

Glroboop.dsw

Using the Build -> Batch Build menu option, select all the targets. Then, build the targets.

You can now run the program !

2.2 Borland C++ 4.5/5.0/5.5

After you have modified the **setup.h** file, go to the **build/msw** subdirectory in the the **wxWidgets** directory and execute:

```
make -f makefile.bcc USE_OPENGL=1 UNICODE=1
```

This will build a DEBUG version of the library. To obtain a non-DEBUG version, run the following commands:

```
make -f makefile.bcc USE_OPENGL=1 UNICODE=1 BUILD=release
```

Then, in the ROBOOP, run the command:

```
make -f makefile.bc5
```

Finally, in the GLroboop directory, execute:

make -f makefile.b32

This will build a DEBUG version of the program. To obtain a non-DEBUG version, run the following commands:

```
make -f makefile.b32 BUILD=release
```

3 Linux

Under Linux, you need the following subdirectories to be located in same the directory:

- roboop: the ROBOOP directory;
- GLroboop: the GLroboop directory.

3.1 **RPM** based systems

Under Fedora Core, SUSE and other RPM based systems, you can install wxWidgets using yum (pirut or other equivalent install systems). For example, under Fedora Core, use the following:

yum install wxGTK-devel

3.2 Debian

Under Debian, the package wxwidgets2.6-dev and its dependencies are needed to compile GLroboop.

3.3 Gentoo

Install the package wxGTK.

3.4 Other distribution

Please check if a pre-build package is available.

3.5 Install from source

If your distribution does not have a pre-build package, you can install from source. First, download the wxWidgets sources (for example the sources of wxWidgets for GTK+). Extract the sources from the archive and enter the following commands for the GTK+ version (for shared libraries):

```
./configure --with-gtk --with-opengl --enable-unicode
make
su <type root password>
make install
ldconfig
exit
```

Be sure that your LD_LIBRARY_PATH or equivalent variable (/etc/ld.so.conf under some Linux distribution) contains the path to the wxWidgets libraries that have just been installed (/usr/local/lib by default).

To obtain static libraries, replace the first command by

```
./configure --with-gtk --with-opengl --disable-shared --enable-unicode
```

and omit the command

ldconfig

3.6 Compiling **GLroboop**

In the ROBOOP directory, enter the following command:

```
make -f makefile.gcc
```

Then, in the GLroboop directory, enter the following command:

```
make -f makefile.gcc
```

Now, you can run the program:

./GLroboop