How to compile SDL_bgi programs with Dev-C++

These instructions show how to compile an SDL_bgi program using Dev-C++; we will use fern.c, provided in the test/ directory.

Let's assume that Dev-C++ is installed in C:\Dev-Cpp, and that the SDL2 development libraries (MinGW) are installed in C:\SDL2-2.0.8. If you installed the software in different directories, change the following instructions accordingly.

The procedure was tested with Orwell Dev-Cpp 5.11, TDM-GCC 5.1.0-3, and SDL2-devel-2.0.8-mingw.

Links:

https://sourceforge.net/projects/orwelldevcpp/ http://tdm-gcc.tdragon.net/download https://libsdl.org/download-2.0.php

Upgrading Dev-C++'s Compiler

By default, Dev-C++ ships with TDM-GCC 4.9.2; this is an old version that is not compatible with current SDL2 development libraries. To compile SDL_bgi programs, you must upgrade TDM-GCC to the latest release.

- remove the directory C:\Dev-Cpp\MinGW64, or rename it as C:\Dev-Cpp\MinGW64_old
- install TDM-GCC (32 bit) in C:\Dev-Cpp\MinGW64
- start Dev-C++. A window will appear, informing that a suitable compiler was not found. Click on No
- from menu Tools/Compiler Options.../Compiler set to configure, click on the ++ icon (Find and automatically configure compilers)
- when asked to Clear current compiler list?, click on Yes
- select "TDM-GCC 5.1.0 64-bit release" as the "Compiler set to configure"
- restart Dev-C++. A window will appear, informing that gdb was not found. From menu Tools/Compiler Options... select the tab Programs and replace gdb.exe with gdb32.exe
- test Dev-C++ and make sure that you can compile programs.

Compiling SDL_bgi Programs

• copy SDL_bgi.dll to C:\Dev-Cpp\MinGW64\lib

- copy SDL_bgi.h to C:\SDL2-2.0.8\i686-w64-mingw32\include\SDL2
- copy graphics.h to C:\SDL2-2.0.8\i686-w64-mingw32\include
- Run Dev-C++ and start an empty project called Fern: menu File/New/Project..., tick "C Project", select "Empty Project", insert the name "Fern", click on Ok, save the project file
- in the left-hand pane, click on tab Project, remove Untitled, right click on Fern, click on Add to project..., pick fern.c
- menu Project/Project options..., tab Parameters, tab Linker: add the string -lmingw32 -lSDL_bgi -lSDL2main -lSDL2 -mwindows
- tab Directories, tab Include Directories: add C:\SDL2-2.0.8\i686-w64-mingw32\include\SDL2 and C:\SDL2-2.0.8\i686-w64-mingw32\include
- tab Library Directories: add C:\SDL2-2.0.8\i686-w64-mingw32\lib then click on Ok
- compile the program: menu Execute/Compile
- copy SDL2.dll and SDL_bgi.dll to the same directory as fern.exe
- run it: menu Execute/Run.

Note 1: if you release your compiled program, you must also provide SDL2.dll and SDL_bgi.dll in the same directory.

Note 2: if your code uses functions provided by stdio.h (e.g. printf(), scanf(), etc.) you must also run a terminal. Remove the option -mwindows from the linker parameters.