

Compiling

- Install the following packages before starting the compilation:
 - CodeBlocks IDE (http://www.codeblocks.org/).
 - CMake (https://cmake.org/)
- Install the following packages before starting the compilation if you are building on Windows:
 - TDM GCC compiler (http://tdm-gcc.tdragon.net/). Choose the 32bit or 64bit compiler.
 - MSYS (http://www.mingw.org/wiki/msys).
 - Run MSYS and type: gcc -v. Check COLLECT_GCC path. This should be something like c:\TDM-GCC-64\bin\gcc.exe.
 - Setup CodeBlocks IDE to use the previously installed TDM-32 bit or TDM-64 bit compiler. Open CodeBlocks and go to [settings]->[compiler]->[toolchain executables]. Change [compiler installation directory] path to TDM GCC compiler installation folder like C:\TDM-GCC-64 for 64 bit build and choose auto detect.
 - Install NSIS (https://nsis.sourceforge.io/Download). This is for creating installation package.
 - Install Xcode and Xcode command line tools in you are building on MACOSX.
- Install on Linux(Ubuntu):
 - Synaptic Package Manager.
 - Install the following packages using synaptic package manager:
 - Gnu c++ compiler: build-essential
 - Gtk+ development libraries: libgtk-3-dev
 - Libudev: libudev-dev
 - OpenGL development libraries: libgl1-mesa-dev
- Extract sources to the directory of your choosing.
- Create build directory. This can be the same or different directory from your sources.
- First step (Windows): Configure and generate 'MinGW makefiles' using Cmake.
- First step (Linux and Mac): Configure and generate 'Unix makefiles' using Cmake.
 - Make sure you enter the correct build type for CMAKE_BUILD_TYPE variable (this can be **Debug** or **Release**), after performing 'Configure' step.
 - Select 'Configure' step two times.
 - Check that all SCOPEFUN variables are properly set after 'Configure' step. There should be no red colored configuration variables or errors in cmake prior to generating choosen build system scripts.
 - Choose 'Generate'.
 - Open MSYS (Windows), go to your build folder and type: mingw32-make package. This command will build libraries in the ScopeFun source folder.
 - Run terminal (Linux and Mac), go to your build folder and type: make package



- Second step (Windows): Configure and generate 'CodeBlocks-MinGW Makefiles' using Cmake.
- Second step (Linux and Mac): Configure and generate 'CodeBlocks-Unix Makefiles' using Cmake.
 - Change 'Where to build the binaries' folder in Cmake (this must be different folder as in first step).
 - Make sure you enter the correct build type for CMAKE_BUILD_TYPE variable (this can be **Debug** or **Release**), after performing 'Configure' step.
 - Select 'Configure' step two times.
 - Check that all SCOPEFUN variables are properly set after 'Configure' step. There should be no red colored configuration variables or errors in cmake prior to generating choosen build system scripts.
 - Choose 'Generate'.
 - Open generated project with Codeblocks and select target 'sfScope'
 - Go to Project options-> Build targets tab: change 'Execution working dir' to project source folder
 - You can now build the project
- Open CodeBlocks IDE and compile or run MSYS command shell.
 - Build executable files(Windows): got to build directory and type: mingw32-make -f makefile
 - Build installer package(Windows): got to build directory and type: mingw32-make package
 - Build source files package(Windows): got to build directory and type: mingw32-make package source
 - Build executable files(Linux and Mac): got to build directory and type: make -f makefile
 - Build installer package(Linux and Mac): got to build directory and type: make package
 - Build source files package(Linux and Mac): got to build directory and type: make package_source
- Questions? Go to www.scopefun.com where you can join a forum or contact us by e-mail.