



Compile XLiFE++ libraries for CodeBlocks on Windows, using cmake

Eric Lunéville







• XLiFE++ source installed

http://uma.ensta-paristech.fr/soft/XLiFE++/?module=main&action=dl

- CodeBlocks http://www.codeblocks.org/downloads
- cmake installed (>2.8.2) https://cmake.org/download/
- paraview installed http://www.paraview.org/download/
- gmsh installed http://gmsh.info/#Download

Extra libraries (optionnal)

blas, lapack, suitesparse, arpack







CMake 3.2.2 - E:/Eric/Eric_bureau/xlife++_release/build_gcc_release32	- 🗆 X
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Directory: E:/Eric/Eric_bureau/xlife++_release/build_go	cc_release32



Choose CodeBlocks as builder







First configure



CMake 3.2.2 - E:/Eric/Eric_bureau/xlife++_release/build_gcc_release32	- 🗆 X
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Second configure



CMake 3.2.2 - E:/Eric/Eric_bureau/xlife++_release/build_gcc_release32		- 🗆 X	
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Could NOT find Doxygen (missing: DOXYGEN_EXECUTABLE)			
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Second configure



	CMake 3.2.2 - E:/Eric/Eric_bureau/xlife++_release/build_gcc_release32		– 🗆 X
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	<u>Configure</u> <u>G</u> enerate Current Generator: CodeBlocks - MinGW Makefiles You do not want to configure XLiFE++ with Arpack You do not want to configure XLiFE++ with OpenMP XLiFE++ is not configured with gmsh XLiFE++ is not configured with paraview Could NOT find Doxygen (missing: DOXYGEN_EXECUTABLE) Configuring done		▲ ▼ ▶



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Now generate



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Build is completed



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tests	12/06/2016 01:06	Dossier de fichiers		
cmake_install.cmake	12/06/2016 01:06	Fichier CMAKE		
CMakeCache.txt	12/06/2016 01:02	Document texte		
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Makefile	12/06/2016 01:06	Fichier	Taille :	850 Ko
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Compile libraries









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libessentialConditions.a	624 Ko	12/06/2016 01:18	Fichier A	
libfinalize.a	3 Ko	12/06/2016 01:18	Fichier A	
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Compile a test









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TRIANGULAR mesh: 10 sudivisions, h = 0.02 🗄 🗁 dev 105 🗄 🗁 ext 106 BilinearForm muv=intg(omg, u * v); 📩 🔁 sys 107 BilinearForm auv = intg(omg, grad(u) -> Triangles P2----computing FE term intg_Omega grad(u) | grad(v) + intg_Omega u * v, using 4 threads : done sys_1d.cpp 108 BilinearForm ruv=intg(omg, grad(u) TermMatrix a(u,v) computed, size 9801 x 9801 : suTérmMatrix a(u,v)_sub : block (v, u) -> sys_2d.cpp 109 matrix 9801 X 9801 of real scalar in symmetric_compressed sparse (csr,csc) (60516 coeffici sys_accoustic_waveguide.cpp 110 LinearForm fv: ents) sys_BEM_Laplace_Helmholtz Dirichle 111 Real a: sys_cv_ie3d.cpp 112 TermVector Uex; computing FE term intg_Omega grad(u) | grad(v), using 4 threads : done sys_EigenSolverSparse.cpp TermMatrix R computed, size 9801 X 9801 : ŠutermMatrix R_sub : block (v, u) -> matrix 9 113 TermVector un(u,omg,1.,"un"); 801 X 9801 of real scalar in symmetric_compressed sparse (csr.csc) (60516 coefficients) sys_ExplicitIntegralRepresentation.cp 114 sys FE IM.cpp 115 if(omg.dim()==1) computing FE term intg_Omega u * v, using 4 threads : done sys IE Helmholtz3D DSC.cpp 116 TermMatríx M computed, sizé 9801 x 9801 : SuTermMatrix M_sub : block (v, u) -> matrix 9 sys_IE_Helmholtz3D_NDC.cpp 117 fv=intg(omg, cosx1 * v); 801 X 9801 of real scalar in symmetric_compressed sparse (csr.csc) (60516 coefficients) sys IE Helmholtz3D NSC.cpp 118 Uex = TermVector(u, omg, cosx1); cpu time -> compute matrices : Os. sys_isotropic_plate.cpp 119 a=1 + pi * pi; factorise matrix 9801 x 9801 using LDLt (skyline) sys_lterativeSolverWithEpsilon.cpp 120 solving linear system a(u,v)_copy * X = f(v) (size 9801) cpu time -> solve system using LDLT 121 : 0.562s. sys_Laplace_var.cpp 122 if(omg.dim()==2) ----- P2, h=0.02, nb d]=9801 -----sys OpenMP.cpp L2 Error = 8.44461e-009. Rel. L2 error = 3.50269e-007 123 白 H1 error = 3.24028e-006, Rel. H1 error = 2.95127e-005 sys_periodic_3d.cpp 124 fv=intg(omg, cosx2 * v); CO error = 1.55733e-007, Rel. CO error = 3.22979e-006 sys_plate_diffraction_3D.cpp 125 Uex = TermVector(u, omg, cosx2); -> cpu time = 0 sys SauterSchwablM.cpp < sys_Laplace_Neumann : results saved to E:/Eric/Eric_bureau/xlife++_release\tests\res\sys_Lap sys_solvers_BEM.cpp lace Neumann.res .ogs & others sys wave eq.cpp total cputime -> Total CPU time : 0.953s. 🕞 unit < Process returned 0 (0x0) execution time : 1.068 s Unix (LF) UTF-8 Line 1, Column 1 Insert Press any key to continue.





By default, CodeBlocks-MinGW provides a g++ 32 bits compiler with no omp support so you have to install a new MinGW package to get a g++ 64 bits compiler with omp support :

https://sourceforge.net/projects/mingw-w64/files/latest/download

MinGW -64 provide 32bits and 64bits g++4.xx or g++5.xx compilers supporting omp



Install MinGW-64



□ First download at <u>https://sourceforge.net/projects/mingw-w64/files/latest/download</u> the minGW-W64 installer and run it :

😼 Installing MinGW-W64		– 🗆 X		😼 Installing MinGW-W64	-	□ X
Settings Specify setup settings.				Specify setup settings.		
Version Architecture Threads Exception Build revision	5.3.0 i686 posix dwarf 0	 Installing x86_64-5.3.0-posix-seh-n Installation folder Select a destination folder w be installed. 	rt_v4-rev0 /here x86_64-5.3.0	Version <u>Architecture</u> — □ × ·posix-seh-rt_v4-rev0 will	5.3.0 ~ 86_64 ~ osix ~ eh ~ ~	
choice — MinGW-W64	es for g++	Setup will install files in the fo If you would like to install x86 folder, click Browse and selec Destination folder m Files\mingw-w64\x86_6	ollowing folder. 5_64-5.3.0-posix-se t another folder. 54-5.3.0-posix-seh-1	h-rt_v4-rev0 into a different t_v4-rev0 <u>B</u> rowse	or g++5.3-64 bits	<u>C</u> ancel
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Install MinGW-64



add the bin folder of your Mingw-64 to the windows path

🖅 Path Editor —	×
User Vser C:\Users\Erik\.dnx\bin	
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C:\Program Files\MATLAB\R2015a\bin C:\Program Files\Microsoft SQL Server\130\Tools\Binn\ C:\Program Files\Git\cmd	
✓ C: \Program Files \Microsoft SQL Server \120 \100is \Binn \ ✓ C: \Program Files \mingw-w64\x86_64-5.3.0-posix-seh-rt_v4-rev0 \mingw64	.
Add ZEdit Kemove	
OK Cancel	

by using the friendly PathEditor executable (<u>https://patheditor2.codeplex.com/</u>)

reboot your pc !

now cmake will use the MinGW64 compiler you install, either 32 or 64 bits both supporting omp



Reconfigure CodeBlocks

XLiFE++

CodeBlocks default compiler is 32 bits,

but as cmake will detect MinGW64 compilers, it will be used by XLiFE++ project (no trouble)

If you want CodeBlocks works always with MinGW64, go to Settings->Compiler->ToolchainExecutables and change the Compiler's installation directory by specifying your MinGW-64 directory

Compiler settings	- 0	×		
	Global compiler settings			
	Selected compiler			
	GNU GCC Compiler	\sim		
	Set as default Copy Rename Delete Reset d	efaults		
Global compiler settings	Compiler settings Linker settings Search directories Toolchain executables Custom variables Build option	s I I F		
	Compiler's installation directory			
	C:\Program Files (x86)\CodeBlocks16.01\MinGW Auto-det	tect		
	NOTE: All programs must exist either in the "bin" sub-directory of this path, or in any of the "Additional paths	·		
	Program Files Additional Paths			
Profiler settings	C compiler: gcc.exe			
	C++ compiler: g++.exe			
	Linker for dynamic libs: g++.exe			
	Linker for static libs: ar.exe			
Batch builds	Debugger: GDB/CDB debugger : Default	~		
	Resource compiler: windres.exe			
	Make program: mingw32-make.exe			
	OK Cancel			

Other method : replace original MinGW folder of CodeBlocks by your MinGW-64 folder





Create new XLiFE++ application using CodeBlocks on Windows,

Eric Lunéville







- XLiFE++ source installed
- XLifE++ libraries built from CodeBlocks generator
- XLifE++ libraries compiled with CodeBlocks



> Newton > Users (E:) > Eric > Eric_bureau > xlife++_release > bin \wedge Nom Modifié le Туре Taille 1 Ke doxyapi 07/06/2016 18:50 Fichier doxyweb 1 Ku double click on 07/06/2016 18:50 Fichier 🚳 xlifepp.bat 11/06/2016 09:11 Fichier de comma... 20 Ku 💿 xlifepp.sh 11/06/2016 09:11 Shell Script 21 Kr 📧 xlifepp_new_project_win.exe 11/06/2016 07:50 Application 34 Ki xlifepp_test_runner.rb 11/06/2016 08:45 Fichier RB 4 Ku

Run xlifepp_setup_win_project



OK

Annuler

Créer un nouveau dossier

XLifE++ install fo	ect - XLiFE++ v1.4-r26	date, if not set it y –	ourself	choose folder where create new application
XLiFE++ install folder	E:\Eric\Eric_bureau\xlife++_release			
XLiFE++ project folder				Rechercher un dossier X
XLiFE++ project type	CodeBlocks version	- MinGW Makefiles	~	Folder where create new XLiFE++ project
available XLiFE++ lib	cl.exe \checkmark build type	Release 🗸	seq 🗸	Systeme (D:)
load a main file	~			> Hugo
				> Photos
	Generate		Cancel	thunderbird xlife_extern_lib Data (F:)

if XLiFE++ project folder does not exist, you can create it

if XLiFE++ project folder exists and contains some old files, it is recommanded to clean it





Run xlifepp_setup_win_project

ENSTA ParisTech universite





Run xlifepp_setup_win_project

ENSTA ParisTech . universite



À XLife++ setup proj	ect - XLiFE++ v1.4-r26		-	- 🗆	×	
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XLiFE++ project folder	E:\testxlife					
XLiFE++ project type	CodeBlocks	✓ version	- MinGW Makefiles		~	
available XLiFE++ lib	g++.exe-5.2.0	executed command	C:/Program Files (x86)/CMake/bin 6)/mingw-w64/i686-5.2.0-posix-dw	/cmake.exe"E:\tes varf-t_v4-rev0/min	sbdife -G ''CodeBl gw32/bin/g++.ex	
load a main file	minimal main Generate		he C compiler identification is GNU he CXX compiler identification is GNU heck for working C compiler: C:/P heck for working C compiler: C:/P letecting C compiler ABI info letecting C compile features letecting C compile features letecting C compile features letecting CXX compiler: C heck for working CXX compiler: C heck for working CXX compiler: C letecting CXX compiler ABI info letecting CXX compile Features letecting CXX compile features - d fou want to use XLIFE++ with Ope LLIFE++ was compiled in Release r	U 5.2.0 SNU 5.2.0 (rogram Files (x86)/ e e :/Program Files (x8 :/Program Files (x8 i/Program Files (x8 done one nMP e-5.2.0 mode	/mingw-w64/i686- /mingw-w64/i686- 86)/mingw-w64/i6 86)/mingw-w64/i6	5.2.0-posix-dwarf+t_v4-rev0/mingw32/bin/gcc.exe 5.2.0-posix-dwarf+t_v4-rev0/mingw32/bin/gcc.exe works 86-5.2.0-posix-dwarf+t_v4-rev0/mingw32/bin/g++.exe 86-5.2.0-posix-dwarf+t_v4-rev0/mingw32/bin/g++.exe works in log window check that project
click on generate			LiFE++ libraries found ! 'our program will be compiled with 'our program will be compiled with ornfiguring done und files have been written to: E:/	LAPACK BLAS Arpack and Arpack Umfpack OpenMP testolife	k++	is created





close all windows of setup project and goto project folder





Run CodeBlocks









Now have fun with XLiFE++