

XLIFE++: an eXtended Library of Finite Elements in C++

Install and Use

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XLIFE++ - Install and Use

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- Downloading XLIFE++
- Installing XLIFE++

Using XLIFE++



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Downloading XLIFE++

Installing XLIFE++

- Requirements
- About CMAKE
- Building XLIFE++
- Compiling XLIFE++

Using XLIFE++

- Requirements
- Running user script
- About PARAVIEW



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XLIFE++ is downloadable at the following url: http://uma.ensta-paristech.fr/soft/XLiFE++ About website:



Archives of XLIFE++ are of 3 kinds: sources only, api only, and sources/api (full) User documentation is available in pdf format or in HTML format Source documentation (API), generated by DOXYGEN, is available here Qt-based applications for users will be downloadable (under development)



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Downloading XLIFE++



- Requirements
- About CMAKE
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Using XLIFE++

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- Running user script
- About PARAVIEW



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A C++ compile



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A C++ compiler

If you want to use multithreading capabilities, you may install a compatible compiler

- clang/clang++ does not support natively OpenMP
- on Mac, g++ is an alias to clang++
- On Mac, with Homebrew package manager, g++ compilers are not installed by default with OpenMP management
- On Windows If CodeBlocks is installed with its own MinGW compiler, it does not support OpenMP



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About CMAKE



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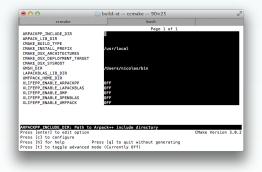
Where is the source code: This should be \$XLIFEPP_HOME_DIR, containing the top-level CMakeLists.txt script that CMAKE will run.

Where to build the binaries: This is the directory where CMAKE will put the build files, such as CMAKE cache, object files, It is often \$XLIFEPP_HOME_DIR/build





CMAKE can be called with a GUI in Terminal on Unix/Linux and MacOS:



Where to build the binaries: The directory in which ccmake is called

Where is the source code: The directory containing the top-level CMakeLists.txt. It is given with a relative path to the ccmake command:

ccmake ..



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In command line mode, options are set with -D: Example:

cmake		-DCMAKE	CXX	COMPIL	_ER=g	++-4.8
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Main CMAKE options:

- CMAKE_CXX_COMPILER This option is used to set the compiler CMAKE will use to compile your code:
- CMAKE_BUILD_TYPE This option is used to set the type of build (debug, release, ...). Possible values are essentially Debug and Release. The default value is Release.





Configuring XLIFE++ with GMSH:

XLIFEPP_GMSH_DIR to specify the directory containing the GMSH binary. If GMSH is in your path, it will be automatically detected, else you can use this option.



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Configuring XLIFE++ with PARAVIEW:

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Configuring XLIFE++ with OpenMP:

XLIFEPP_ENABLE_OMP Activates/Deactivates use of OpenMP

cmake .. -DXLIFEPP_ENABLE_OMP=ON





Configuring XLIFE++ with ARPACK:

XLIFEPP_ENABLE_ARPACK Activates/Deactivates configuration with ARPACK



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Configuring XLIFE++ with ARPACK:

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Configuring XLIFE++ with UMFPACK:

XLIFEPP_ENABLE_UMFPACK Activates/Deactivates configuration with UMFPACK





Configuring XLIFE++ with ARPACK:

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Configuring XLIFE++ with UMFPACK:

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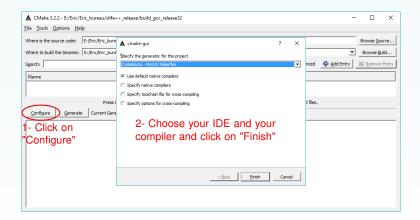


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Building XLIFE++ - Configure



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Building XLIFE++ - Generate



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Building XLIFE++ - Generate



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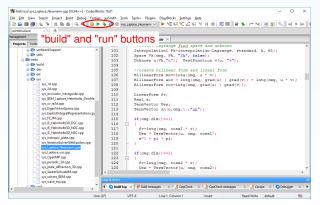
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Command-line: You just have to run make libs to compile libraries or make to compile libraries and tests executables

IDE mode: You select target "libs" to compile libraries, or "all" to compile libraries and test executables

To run a test:





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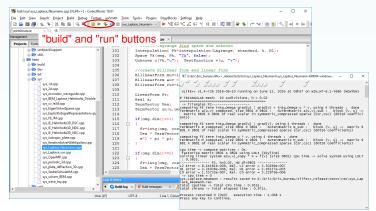
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IDE mode: You select target "libs" to compile libraries, or "all" to compile libraries and test executables

To run a test:





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Downloading XLIFE++

Installing XLIFE++

- Requirements
- About CMAKE
- Building XLIFE++
- Compiling XLIFE++

Using XLIFE++

- Requirements
- Running user script
- About PARAVIEW







Basically, XLIFE++ compilation depends on the cross-platform builder CMAKE, available at $\tt http://cmake.org.$



To use the full abilities of mesh definition in XLIFE++, you may also install GMSH (http://gmsh.info).

To plot solutions, you may install PARAVIEW (http://www.paraview.org) or GMSH.

A C++ compiler

If you use command line, you may want to add \$XLIFEPP_HOME_DIR/bin to your path



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Running user script



There are user scripts to prepare the user program that will use XLIFE++: xlifepp.sh on Unix/Linux and MacOS, xlifepp.bat on Windows. Scripts are physically in \$XLIFEPP_HOME_DIR/bin directory



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Running user script



There are user scripts to prepare the user program that will use XLIFE++: xlifepp.sh on Unix/Linux and MacOS, xlifepp.bat on Windows. Scripts are physically in \$XLIFEPP_HOME_DIR/bin directory

MAIN OPTIONS: --build, -b copy cmake files and eventually sample of main file and run cmake on it to prepare your so-called project directory. This is the default --clean, -cl clean project directory (remove CMake build files) generate the project. Used with --build option. --generate, -g This is the default. --help, -help, -h show the current help --interactive, -i run xlifepp in interactive mode. Used with --build option. This is the default --non-interactive, -noi run xlifepp in non interactive mode. Used with --build option --no-generate, -nog prevent generation of your project. You will do it yourself. --version, -v print version number of XLiFE++ and its date --verbose-level <value>, set the verbose level. Default value is 1 -vl <value>



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There are user scripts to prepare the user program that will use XLIFE++: xlifepp.sh on Unix/Linux and MacOS, xlifepp.bat on Windows. Scripts are physically in \$XLIFEPP_HOME_DIR/bin directory

```
OPTIONS FOR BUILD IN NON INTERACTIVE MODE:
   --build-type <value>, set cmake build type (Debug, Release, ...).
   -bt <value>
   --cxx-compiler <value>, set the C++ compiler to use.
   -cxx <value>
   --directory <dir>,
                              set the directory where you want to build
   -d <dir>
                              your project
   --generator-name <name>,
                              set the cmake generator.
   -gn <name>
   -f <filename>,
                              copy <filename> as a main file for the user
   --main-file <filename>
                              project.
                              do not copy the sample main.cpp file. This is
   -nof,
   --no-main-file
                              the default.
   --with-omp, -omp
                              activates OpenMP mode
   --without-omp, -nomp
                              deactivates OpenMP mode
```



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• • •	👚 kielbasi — xlifepp.sh — 80×24
MacBook-Pro-de-Ni	colas:~ kielbasi\$ xlifepp.sh
*****	*****
* xlife	pp *
*****	**********
Project directory	(default is current directory):
. exists	
The following gen	erators are available on this platform:
1 -> Unix Makefil	
2 -> Ninja	
3 -> Xcode	
4 -> CodeBlocks -	Ninia
5 -> CodeBlocks -	
6 -> CodeLite - N	inia
7 -> CodeLite - U	
8 -> Eclipse CDT4	- Ninia
9 -> Eclipse CDT4	
10 -> KDevelop3	
11 -> KDevelop3 -	Unix Makefiles
12 -> Kate - Ninj	a
13 -> Kate - Unix	Makefiles
14 -> Sublime Tex	t 2 - Ninja
	t 2 - Unix Makefiles
Your choice (defa	ult is 1):



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• • • ☆ kielbasi — xlifepp.sh — 80×24 14 -> Sublime Text 2 - Ninja 15 -> Sublime Text 2 - Unix Makefiles Your choice (default is 1): 1 Copying CMakeLists.txt Do you want a sample main file ? (Y)es / (N)o (default is No): Υ The following main files are available: 1 -> main.cop 2 -> elasticitv2dP1.cpp 3 -> helmholtz2d-Dirichlet_single_layer.cpp 4 -> helmholtz2d_FE_IR.cpp 5 -> helmholtz2dP1-cg.cpp 6 -> helmholtz2dP1-DtN scalar.cpp 7 -> laplace1dP1.cpp 8 -> laplace2dP0 RT1.cpp 9 -> laplace2dP1-average.cpp 10 -> laplace2dP1-dirichlet.cpp 11 -> laplace2dP1-periodic.cpp 12 -> laplace2dP1 Neumann.cpp 13 -> laplace2dP2-eigen.cpp 14 -> laplace2dP2-transmission.cpp 15 -> maxwell2dN1.cpp 16 -> wave 2d leap-frog.cpp Your choice (default is 1):





```
• • •
                         ☆ kielbasi — xlifepp.sh — 80×24
10 -> laplace2dP1-dirichlet.cpp
11 -> laplace2dP1-periodic.cpp
12 -> laplace2dP1_Neumann.cpp
13 -> laplace2dP2-eigen.cpp
14 -> laplace2dP2-transmission.cpp
15 -> maxwell2dN1.cpp
16 -> wave_2d_leap-frog.cpp
Your choice (default is 1): 1
Copving main.cpp
Cleaning CMake build files in project directory ? (Y)es / (N)o (default is No):
Ν
The following compilers are available:
1 -> clang++-4.2.1
2 -> clang-4.2.1
3 -> q++-4.8
Your choice (default is 1): 3
The following build types are available
1 -> Debug
2 -> Release
Your choice (default is 1): 2
You can use:
1 -> multi-threading with OpenMP
2 -> sequential
Your choice (default is 1):
```





🏫 kielbasi — -bash — 80×24 -- Detecting C compile features -- Detecting C compile features - done -- Checking whether CXX compiler has -isvsroot -- Checking whether CXX compiler has -isvsroot - ves -- Checking whether CXX compiler supports OSX deployment target flag -- Checking whether CXX compiler supports OSX deployment target flag - yes -- Check for working CXX compiler: /usr/local/bin/g++-4.8 -- Check for working CXX compiler: /usr/local/bin/g++-4.8 -- works -- Detecting CXX compiler ABI info -- Detecting CXX compiler ABI info - done -- Detecting CXX compile features -- Detecting CXX compile features - done -- You do not want to use XLiFE++ with OpenMP -- XLiFE++ was compiled with g++-4.8 -- XLiFE++ was compiled in Release mode -- XLiFE++ libraries found ! -- Your program will be compiled without LAPACK -- Your program will be compiled without BLAS -- Your program will be compiled without Arpack and Arpack++ -- Your program will be compiled without Umfpack -- Configuring done -- Generating done -- Build files have been written to: /Users/kielbasi MacBook-Pro-de-Nicolas:~ kielbasi\$



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À XLife++ setup proj	ect - XLiFE++ v1/	4-r26			-		×
XI iEE++ install folder	E:\Eric\Eric burea						
AUFE++ Install folder	E:/Enc/Enc_burea	au voite++_relea	ase				
XLiFE++ project folder	l						
XLiFE++ project type	CodeBlocks		version	- MinGW Makefiles			
available XLiFE++ lib	cl.exe		build type	Release		seq	
load a main file							
	Generate					Can	cel



On MacOS, a Qt-based GUI application to manage the previous script. You can download it on the website

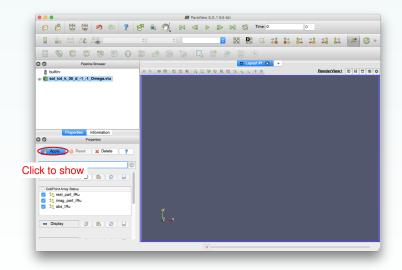


A On Windows, a very small application you can find in \$XLIFEPP HOME DIR/bin



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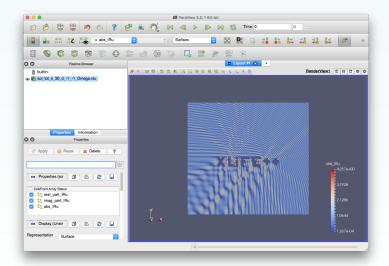


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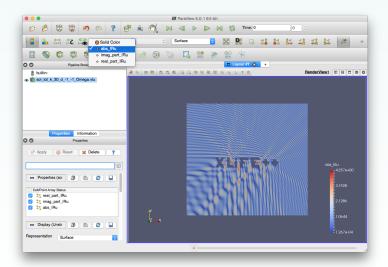


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About PARAVIEW

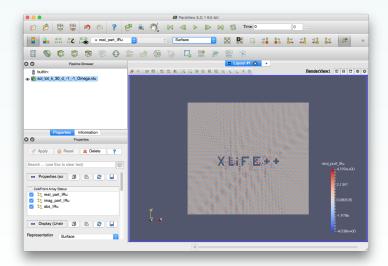
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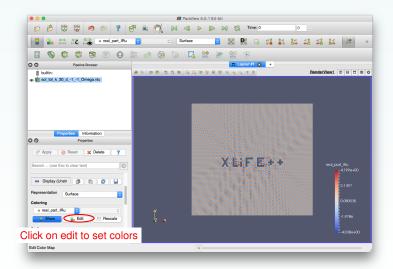






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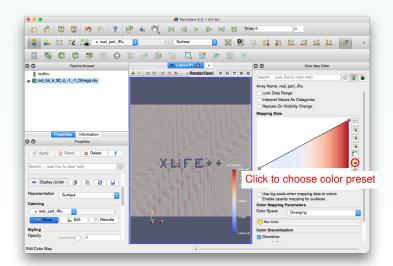




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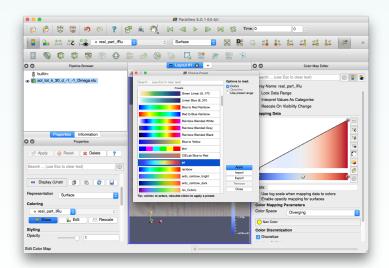






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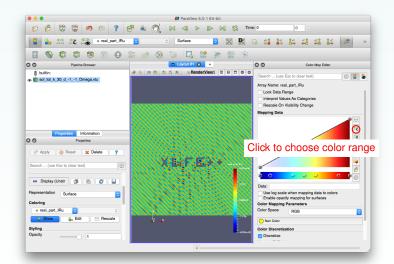


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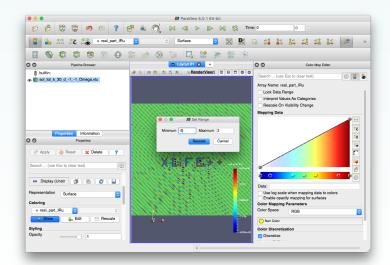




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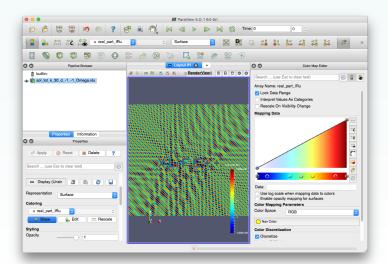






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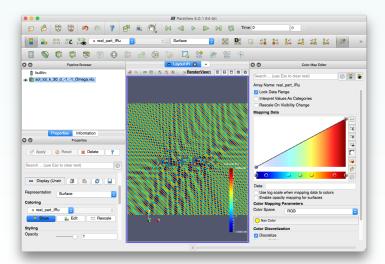
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About PARAVIEW

Sources Filters Tools Catalyst Macros Help



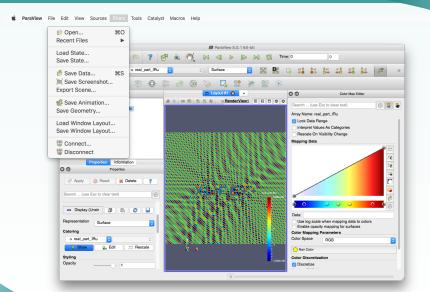


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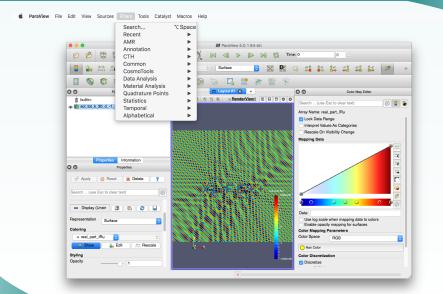




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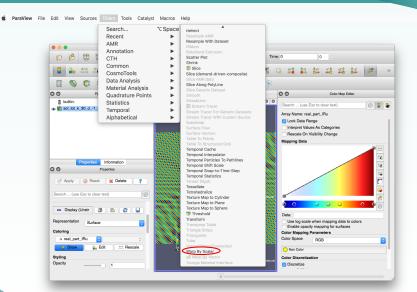




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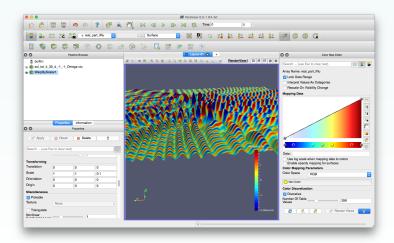






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