

# Flat [Blocks] Project

## The macro framework

### Copyright notice and content:

These macros were written by Daniel Petter. You are free to use and redistribute them, as long as you retain the line Author: Daniel Petter. The Files in „fasminclude.zip“ provide macros, which add:

- Function Declaration (here named Procedure) and Calling, with the option to use local variables.
- Common String operations
- Switch-Case, Do-While and For-To commands
- Basic file operations
- Lots of compiler messages, though this is still heavily work in progress
- (in the future possibly more extensive string, file and socket operations)

This package contains macros made by Tomasz Grysztar. They do not contain the line Author and fall into their own license (see license.txt in the file „fasminclude.zip“). They provide:

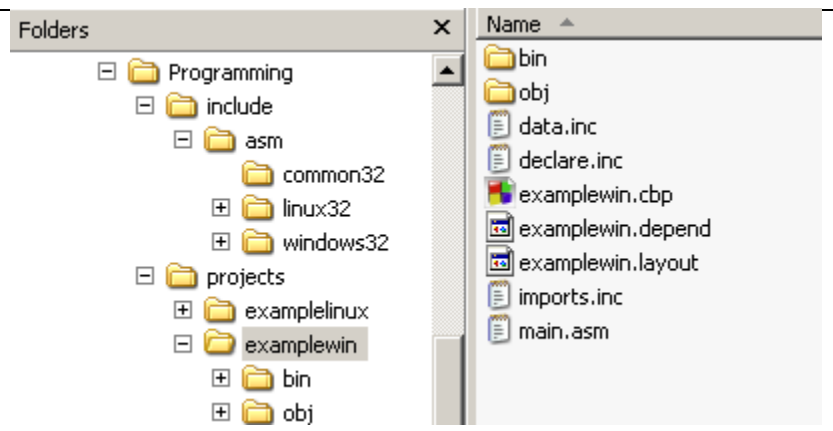
- Structure definition
- Automatic construction of Import section (windows api calls)
- Construction of Windows Resource Section
- Windows Definitions.
- (and possibly more)

The framework currently covers both 32 bit linux (ansi) and windows (ansi, unicode) and have the same syntax on both OS'. For syntax and usage information, open the include files, or take a look at the examples.

### Installation

To use the includes out of the box you must extract the folder include into a directory which is two directories below the directory your code resides. See the image for directory structure.

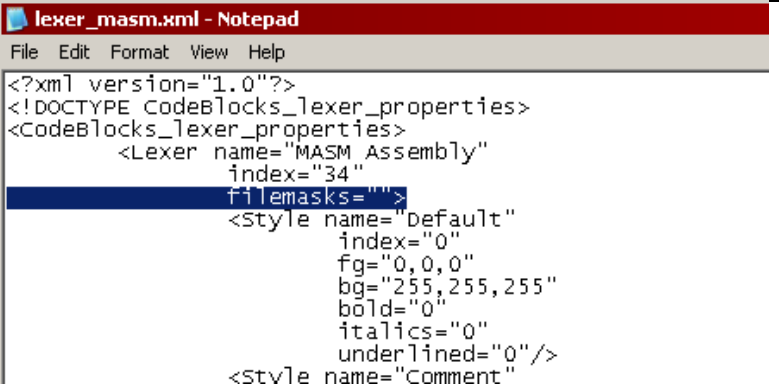
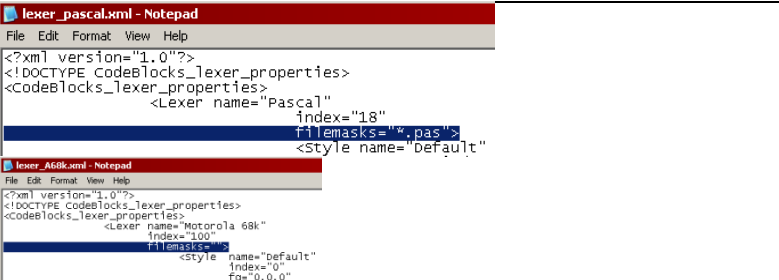
If you want to save them into another folder you will have to edit the include path of either windowsa.inc, windowsw.inc or linuxa.inc.



## Code::Blocks Integration

### Setting up the Lexer

- Extract the files from „fasmlinksript.zip“ into the directory you installed Flat Assembler into.
- Extract the files from „fasmlexers.zip“ into your share/Codeblocks/lexers directory. Now you must remove Assembler file extensions from all lexers that have them. These are:

lexer_masm.xml  (Find the highlightet line and remove „*.asm,“)	
lexer_pascal.xml lexer_A68k.xml	

If code highlighting doesn't work it may be you still have a lexer installed that recognizes asm files. Go to Edit->Highlight Mode when your source is open and check if Flat Assembler is selected. If it is not, the Highlight Mode that is selected probably still has \*.asm filemask.

### Setting up Template Projects

- Extract „fasmtemplate.zip“ into your share/Codeblocks/templates/wizard directory.
- Add the following line to the „config.script“ file:



```
/*
 * This file is part of the Code::Blocks IDE and licensed under the GNU General Public License, version 3
 * http://www.gnu.org/licenses/gpl-3.0.html
 */
/*
 * $Revision: 7635 $
 * $Id: config.script 7635 2011-12-13 21:58:19Z danselmi $
 * $HeadURL: https://svn.berlios.de/svnroot/repos/codeblocks/branches/release-12.11/src/plugins/scriptedwizard/resou
 */

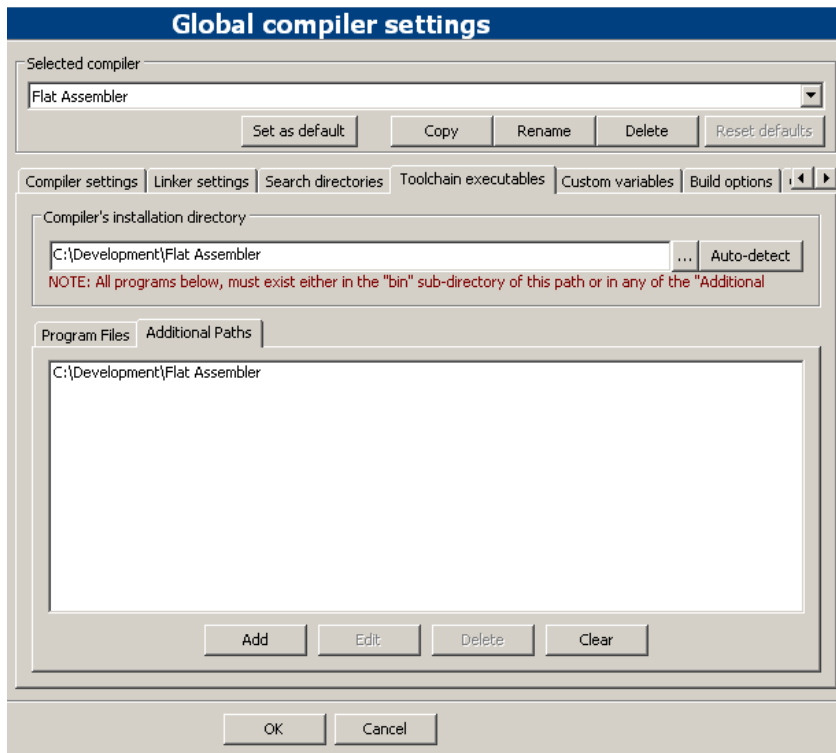
// Main wizards configuration script.
// Here, we register all the available wizards.

function RegisterWizards()
{
    // project wizards
    RegisterWizard(wizProject, _T("empty"), _T("Empty project"), _T("Console"));
    RegisterWizard(wizProject, _T("fortran/app"), _T("Fortran application"), _T("Fortran"));
    RegisterWizard(wizProject, _T("fortran/lib"), _T("Fortran library"), _T("Fortran"));
    RegisterWizard(wizProject, _T("fortran/dll"), _T("Fortran DLL"), _T("Fortran"));
    RegisterWizard(wizProject, _T("console"), _T("Console application"), _T("Console"));
    RegisterWizard(wizProject, _T("fasm"), _T("Flat Assembler application"), _T("console"));
    RegisterWizard(wizProject, _T("d"), _T("d application"), _T("d language"));
    if (PLATFORM == PLATFORM_MSVC)
    {

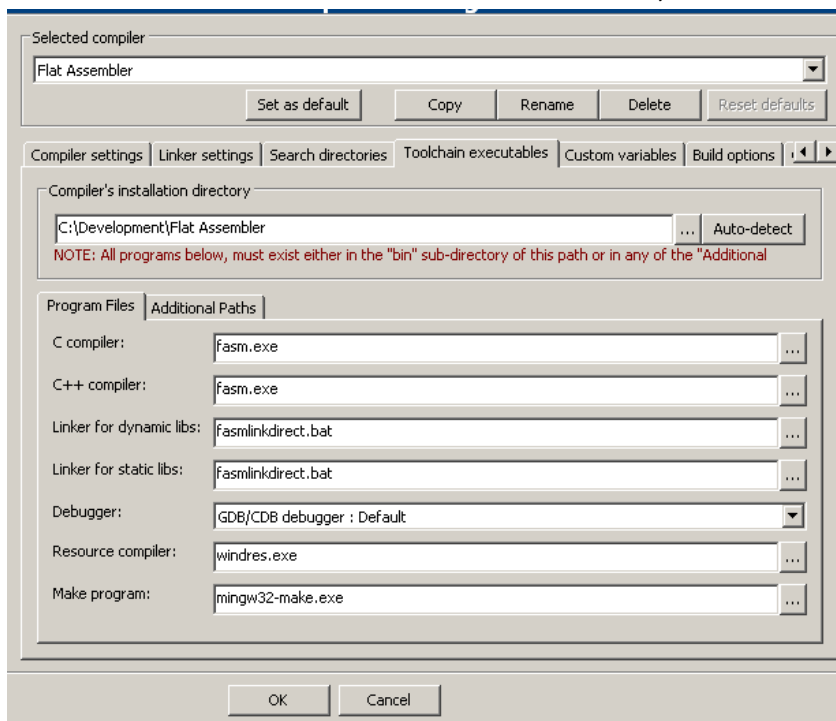
```

## Adding Flat Assembler as Compiler

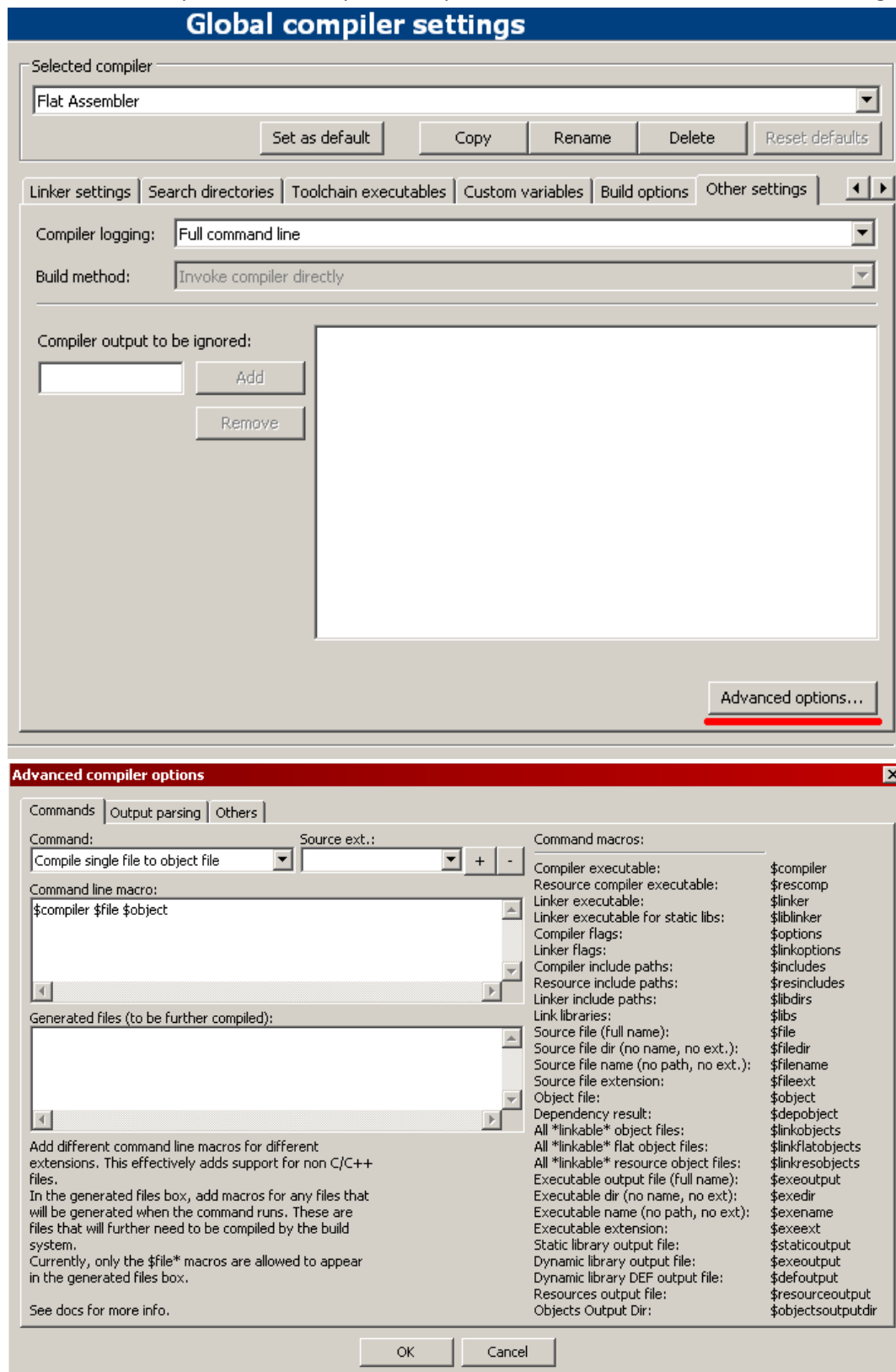
- Make a copy of the default gcc compiler and name it „Flat Assembler“.
- Set the two paths in toolchain executables to the directory where Flat Assembler is installed.

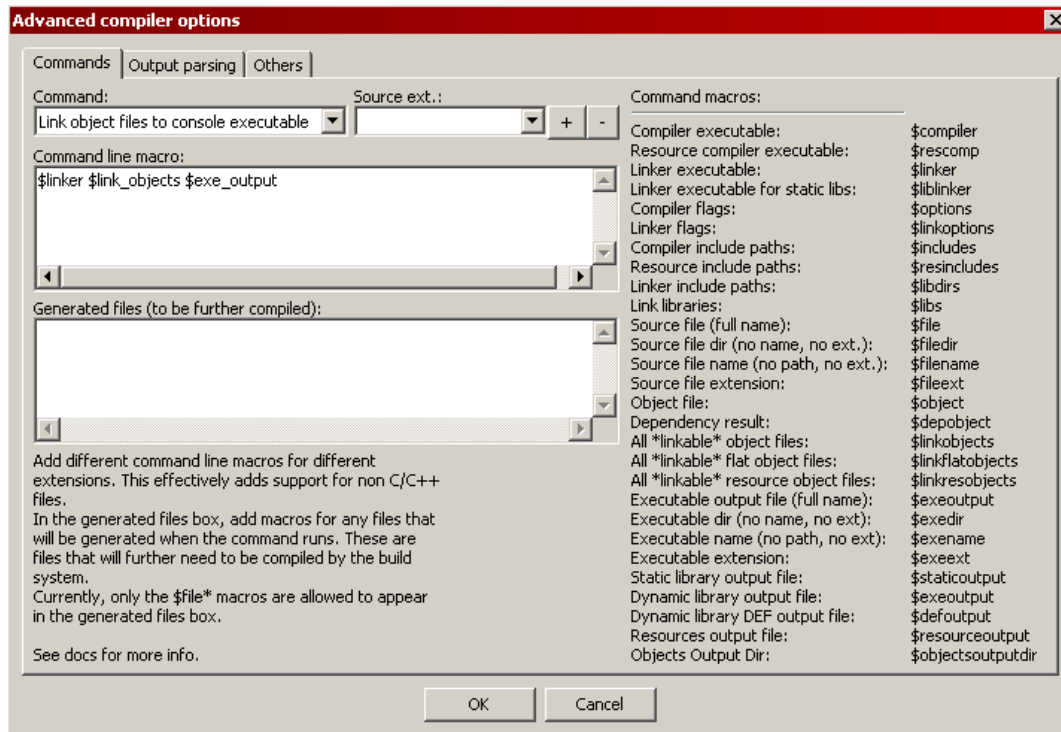


- Change the toolchain executables as on this image (use fasm instead of fasm.exe and fasmlinkdirect.sh instead of fasmlinkdirect.bat on linux).



- Go to advanced options and set up the compiler command line as seen on the following images:





- Restart Code::Blocks

You should now be able to select „Flat Assembler Application“ in your projects wizard. Don't forget to select Flat Assembler as Compiler for the project.