Win flex-bison (/p/winflexbison/)

Win flex-bison is a port Flex & Bison tools to the Windows platform

Brought to you by: <u>lexxmark (/u/lexxmark/)</u>

Visual Studio custom build rules

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Authors: (/u/lexxmark/)

Attachments

1.png (/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/attachment/1.png) (31654 bytes)

2.png (/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/attachment/2.png) (11445 bytes)

3.png (/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/attachment/3.png) (7316 bytes)

4.png (/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/attachment/4.png) (12213 bytes)

5.png (/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/attachment/5.png) (11534 bytes)

6.png (/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/attachment/6.png) (15611 bytes)

BisonProperties.png

 $\underline{(/p/winflexbison/wiki/Visual\%20Studio\%20custom\%20build\%20rules/attachment/BisonProperties.png)}\ (27186\ bytes)$ FlexProperties.png (/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/attachment/FlexProperties.png) (26767 bytes)

Flex debuging.png (/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/attachment/Flex debuging.png) (27219 bytes)

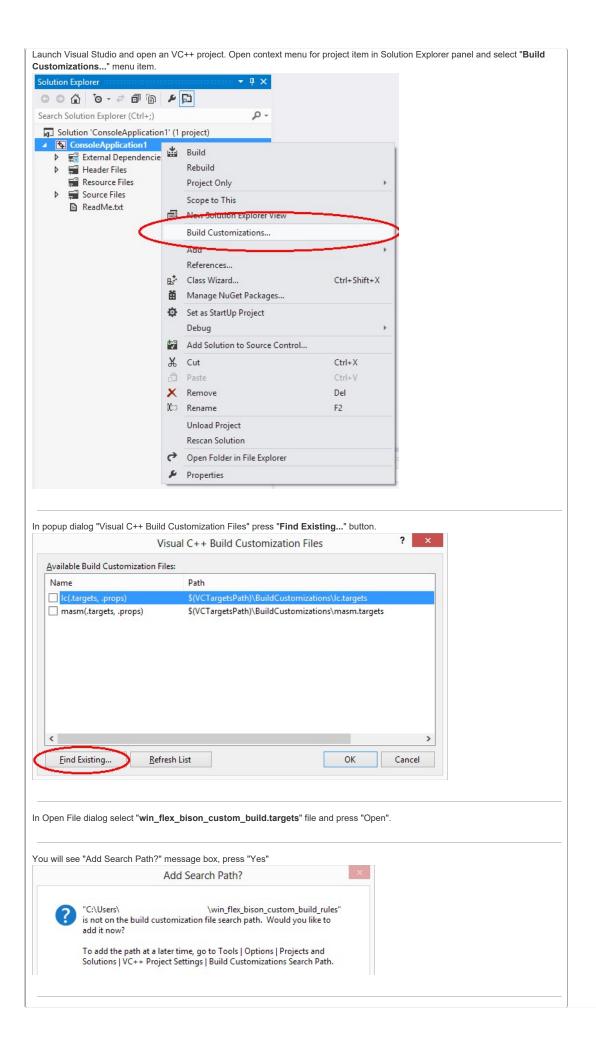
Properties.png (/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/attachment/Properties.png) (31446 bytes)

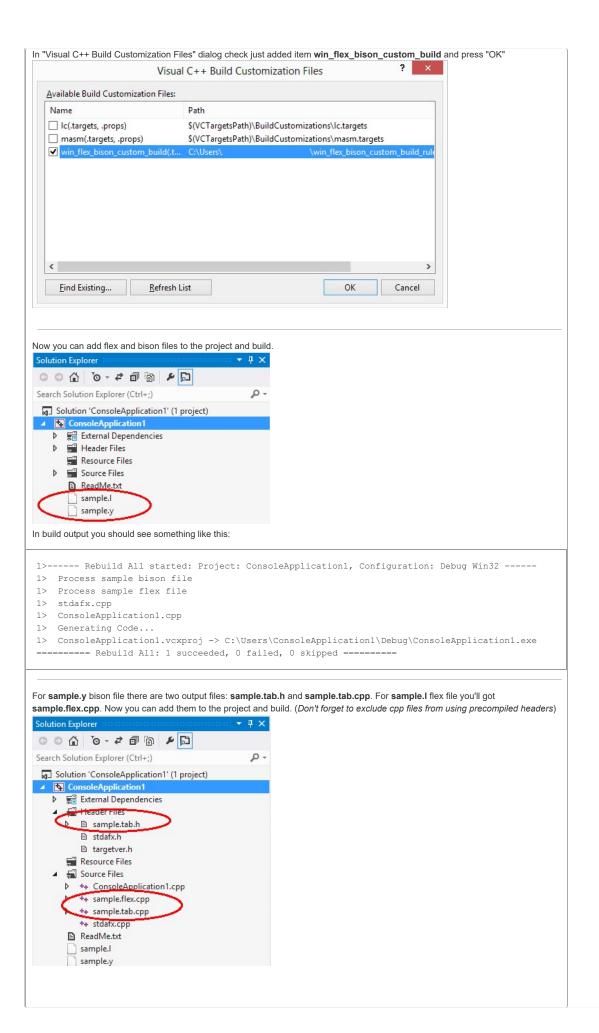
Verbosity.png (/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/attachment/Verbosity.png) (29722 bytes)

These steps help you setup custom build rules for Visual Studio 2010 and up.

- · First of all you should have 3 files:
 - win_flex_bison_custom_build.props
 - · win_flex_bison_custom_build.targets
 - win_flex_bison_custom_build.xml

They are located in custom build rules sub-folder of the win flex bison archive. Or you can grab them here (http://sourceforge.net/projects/winflexbison/files/win_flex_bison_custom_build_rules.zip/download)

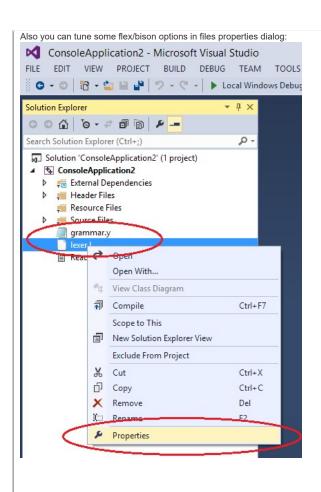


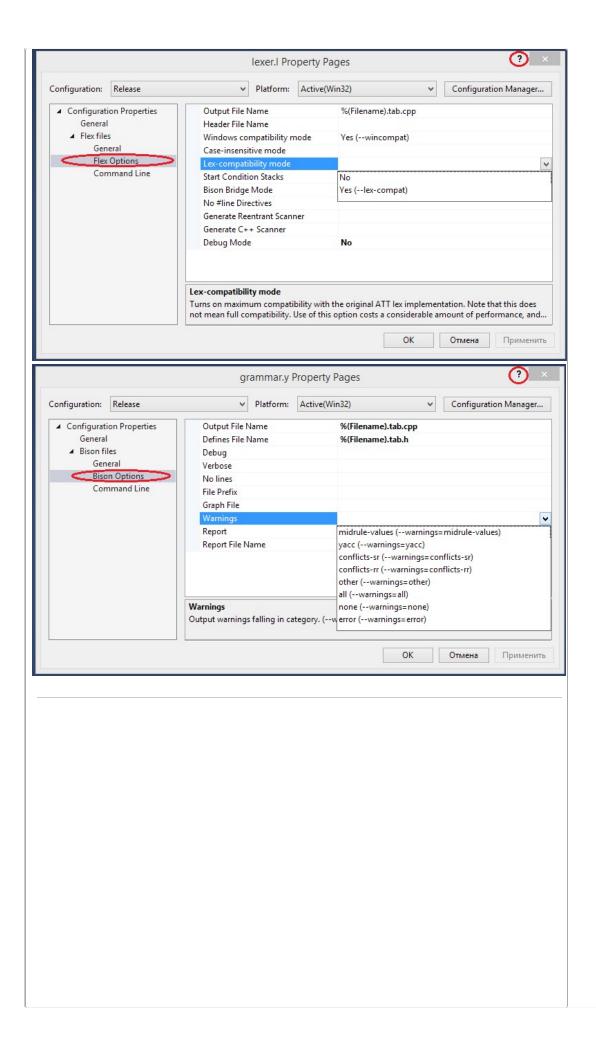


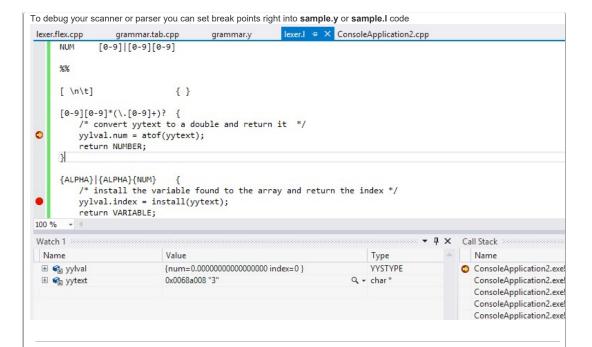
```
1>----- Build started: Project: ConsoleApplication1, Configuration: Debug Win32 -----
 1> Process sample bison file
 1> Process sample flex file
 1> sample.tab.cpp
 1> sample.flex.cpp
 1> Generating Code...
 \verb|| 1> ConsoleApplication1.vcxproj -> C:\Users\ConsoleApplication1\Debug\ConsoleApplication1.exe| | 1> ConsoleApplication1.exe| | 1> ConsoleApplication1.e
                === Build: 1 succeeded, 0 failed, 0 up-to-date, 0 skipped ===
If your flex/bison file is incorrect and you've got an error. But you don't see actual error message, something like this:
 1>----- Build started: Project: ConsoleApplication2, Configuration: Debug Win32 -----
 1> Process "grammar.y" bison file
 1>C:...\custom_build_rules\win_flex_bison_custom_build.targets(55,5): error MSB3721: The command "
 1>C:...\custom build rules\win flex bison custom build.targets(55,5): error MSB3721: start /B /WAI
 1>C:...\custom_build_rules\win_flex_bison_custom_build.targets(55,5): error MSB3721: exit /b %error
 ====== Build: 0 succeeded, 1 failed, 0 up-to-date, 0 skipped ========
You can change Build Output Verbosity from "Minimal" to "Normal" in "Options" dialog
                                                                                                Options
                                                                  Q
                                                                           4
       Search Options (Ctrl+E)
                                                                                           maximum number of parallel project builds
                                                                           ✓ Only build startup projects and dependencies on Run
        ▶ Environment

■ Projects and Solutions

                                                                           On Run, when projects are out of date:
                 General
                                                                            Prompt to build
                                                                           On Run, when build or deployment errors occur:
                  VB Defaults
                  VC++ Directories
                                                                           Prompt to launch
                  VC++ Project Settings
                                                                           For new solutions use the currently selected project as the startup project
                  Web Projects
         ▶ Source Control
                                                                           MSBuild project build output verbosity:
         ▶ Text Editor
                                                                           Normal
         ▶ Debugging
         ▶ Performance Tools
                                                                           MSBuild project build log file verbosity:
         Database Tools
                                                                            Minimal
        D F# Tools
         ▶ Graphics Diagnostics
         ▶ HTML Designer
         NuGet Package Manager
                                                                                                                                                               OK
                                                                                                                                                                                      Cancel
Then you will see more detailed output:
 1>BisonTarget:
 1> Process "grammar.y" bison file
 1> grammar.y:51.1-4: error: invalid directive: '%sdw'
 1>C:...\custom build rules\win flex bison custom build.targets(55,5): error MSB3721: The command "
 1>C:...\custom_build_rules\win_flex_bison_custom_build.targets(55,5): error MSB3721: start /B /WAI
 1>C:...\custom_build_rules\win_flex_bison_custom_build.targets(55,5): error MSB3721: exit /b %erro
 1>Build FAILED.
 1>
 1>Time Elapsed 00:00:01.21
 ====== Build: 0 succeeded, 1 failed, 0 up-to-date, 0 skipped =======
```







Enjoy!

Discussion



Tarek701 (/u/alphaboy/) - 2015-05-16

% (https://sourceforge.net/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/#a613)

Last edit: Tarek701 2015-05-16



gw1907 (/u/gw1907/) - 2015-06-26

% (https://sourceforge.net/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/#f354)

How can I change the custom build rules to build "C" parser?

Thanks



Alex Zhondin (/u/lexxmark/) - 2015-06-28

 $\begin{tabular}{ll} \Pestimate the point of the point of$

It should generate "C" parser code now.

Do you mean generated files should be processed by "C" compiler (not "C++")?

In this case you should change extension of output files from .cpp to .c, so VS will recognize these files as pure "C" source code and will use "C" compiler.



Waheed Ejaz (/u/wejaz/) - 2017-02-16

% (https://sourceforge.net/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/#8157)

I generated lexer in a plain c file and let the bison generate a c++ code. I had to extern "C" the definitions of lexer functions i.e. yylex(), yylineno etc.

But still flex generated code gives linking error for yylval. I checked the generated file by parser, which is c++ file, and it has defined yylval.

```
.ccp bison generated file
extern YYSTYPE yylval;
#ifndef YY_INITIAL_VALUE
# define YY_INITIAL_VALUE(Value) /* Nothing. */
/* The semantic value of the lookahead symbol. */
YYSTYPE yylval YY_INITIAL_VALUE(yyval_default);
.c lex generated file
extern YYSTYPE yylval;
yylval = "SomeValue";
```

There is a linking error. The lex generated file can't find the definition of yylval. Both the lex and bison generated files are in the same project (MS Visual Studio 2010).

Any ideas, what is wrong here.



Alex Zhondin (/u/lexxmark/) - 2017-02-17

% (https://sourceforge.net/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/#46f4)

I have not been working with VS 2010 for a long time.

I can only guess if YYSTYPE is different for lexer and for parser.

Please show all errors as they appear in VS Studio output window.



Waheed Ejaz (/u/wejaz/) - 2017-02-17

% (https://sourceforge.net/p/winflexbison/wiki/Visual%20Studio%20custom%20build%20rules/#a1cc) It is just this one.

11 error LNK1120: 1 unresolved externals \arrowvert \asn1cc.exe 1 Error Error 10 error LNK2001: unresolved external symbol _yylval asnlex_win.obj

Anyway, I have moved on to using .cpp files. They work fine.

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