

## Automated Build Generator - Bug #2650

### setting cxxflags might be incompatible to CMAKE\_BUILD\_TYPE-induced settings

09/06/2016 06:31 PM - R. Haschke

<b>Status:</b>	Closed	<b>Start date:</b>	09/06/2016
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>	J. Moringen	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	0.7		

#### Description

Setting cxxflags leads to the option `-DCMAKE_CXX_FLAGS=${cxxflags}`.  
However, you also set `-DCMAKE_BUILD_TYPE=RelWithDebInfo`.  
In standard cmake this leads to a combination of flags like so: `${CMAKE_CXX_FLAGS} ${CMAKE_CXX_FLAGS_RELWITHDEBINFO}`,  
which may override settings taken in cxxflags. Is this intended?

#### History

##### #1 - 09/06/2016 06:50 PM - J. Moringen

R. Haschke wrote:

```
Setting cxxflags leads to the option -DCMAKE_CXX_FLAGS=${cxxflags}.
However, you also set -DCMAKE_BUILD_TYPE=RelWithDebInfo.
In standard cmake this leads to a combination of flags like so: ${CMAKE_CXX_FLAGS} ${CMAKE_CXX_FLAGS_RELWITHDEBINFO},
which may override settings taken in cxxflags. Is this intended?
```

I think it is. Lars implemented the current behavior with the rationale that CXX\_FLAGS should work across all project natures.

Did you run into problems with this behavior?

As an aside: this project only contains the source code of the generator. The issue at hand is related to templates which are maintained in <https://opensource.cit-ec.de/projects/citk/repository>

##### #2 - 09/06/2016 08:48 PM - R. Haschke

I didn't run into serious issues. But a `-O1` option which I have set on purpose in cxxflags was overridden by `CMAKE_CXX_FLAGS_RELWITHDEBINFO`.

##### #3 - 09/06/2016 08:58 PM - L. Schillingmann

Lets check on a way to remove this default behaviour if any intentional compiler flag configuration is set.

##### #4 - 09/06/2016 09:03 PM - R. Haschke

I guess, the template and variable replacement mechanism is not powerful enough to do so. You would need an if-clause, wouldn't you?

**#5 - 09/08/2016 10:59 AM - R. Haschke**

I pushed some changes to make CMAKE\_BUILD\_TYPE configurable along with cxxflags (using variable cmake.build.type). This will resolve the issue. The default of this variable is RelWithDebInfo (Debug in ci), thus preserving previous behaviour.

I also cleaned up the templates a little bit and cherry-picked some stuff from our lsp-famula branch into master.

**#6 - 09/08/2016 11:53 AM - J. Moringen**

- Status changed from New to Feedback

We're done with this issue, right?

**#7 - 09/08/2016 01:52 PM - R. Haschke**

If you like my changes, yes ;-)

**#8 - 09/08/2016 02:01 PM - J. Moringen**

- Status changed from Feedback to Closed

R. Haschke wrote:

| *If you like my changes, yes ;-)*

The changes are pushed to master already. Thus all amendments should be tracked in separate issues on [opensource.cit-ec.de](https://opensource.cit-ec.de) .

**#9 - 09/08/2016 09:20 PM - L. Schillingmann**

Thanks Robert. Checked my current distribution. At least your changes do not cause any breakage so far ;)

**#10 - 09/30/2016 10:48 AM - J. Moringen**

- Target version set to 0.8

**#11 - 09/30/2016 10:51 AM - J. Moringen**

- Assignee set to J. Moringen

- Target version changed from 0.8 to 0.7