

Robotics Systems Commons - Bug #1693

ProvideGoogleMock macro doesn't allow changing gmock source from inside cmake

12/19/2013 10:08 AM - Anonymous

Status:	Resolved	Start date:	12/19/2013
Priority:	Urgent	Due date:	
Assignee:	J. Wienke	% Done:	100%
Category:	cmake	Estimated time:	0.00 hour
Target version:	rsb-0.11		
Description			
<p>The cmake macro ProvideGoogleMock doesn't allow setting an alternative gmock source path from within the calling cmake script. Calling cmake with the command line option <code>-DGMOCK_SOURCE=...</code> works to change the download url, however</p> <pre>set(GMOCK_SOURCE "http://googlemock.googlecode.com/files/gmock-1.6.0.zip" FORCE) include(ProvideGoogleMock)</pre> <p>in the calling cmake file doesn't change anything. Probably an issue with the friggin' cmake caching.</p>			
Related issues:			
Blocks Robot Control Interface - Bug # 1692: rci doesn't build with rsc>=0.10		Resolved	12/19/2013

History

#1 - 12/19/2013 10:10 AM - J. Wienke

It does, but as this is a cache variable, you probably need to define it as such to override the default value.

```
SET(GMOCK_SOURCE "bla" CACHE STRING "dummy description")
```

#2 - 12/19/2013 10:11 AM - J. Wienke

Oh and if you previously defined it with the command line in the same configuration you might even need the force ;)

#3 - 12/19/2013 10:12 AM - Anonymous

I need to provide a description for the GMOCK_SOURCE variable in my downstream project just to overwrite the variable of the upstream project?

#4 - 12/19/2013 10:17 AM - Anonymous

- Status changed from New to Resolved

- % Done changed from 0 to 90

`set(GMOCK_SOURCE "http://googlemock.googlecode.com/files/gmock-1.6.0.zip" CACHE STRING "cmake cache sucks" FORCE)` works, but this feels wrong and is not intuitive. Do we really need to use this sh** cmake caching?

#5 - 12/19/2013 10:19 AM - J. Wienke

- Status changed from Resolved to New

- % Done changed from 90 to 0

I can't change cmake :/ The problem is that the cache is mainly intended to change variable from a user perspective, which means the command line or cmake. In this case you are actually defining the cache variable before the "first" definition in the google mock cmake file. Moreover, FORCE can only be used with the CACHE syntax.

#6 - 12/19/2013 10:20 AM - J. Wienke

Without caching the user would not have a persistent possibility to override the default location from the command line.

#7 - 12/19/2013 11:38 AM - J. Wienke

May I close this?

#8 - 12/19/2013 11:52 AM - Anonymous

You just re-opened it.

#9 - 12/19/2013 11:53 AM - J. Wienke

No?

#10 - 12/19/2013 11:54 AM - J. Wienke

- Status changed from New to Resolved

- % Done changed from 0 to 100

No idea how this happend