### GROMACS - Bug #1539

Build fails if xml/fftw include path contains older gmock

06/29/2014 11:04 PM - Roland Schulz

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
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<tbody>
<tr>
<td>Priority:</td>
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</tr>
<tr>
<td>Assignee:</td>
<td>Teemu Murtola</td>
</tr>
<tr>
<td>Category:</td>
<td>build system</td>
</tr>
<tr>
<td>Target version:</td>
<td>5.0.1</td>
</tr>
<tr>
<td>Affected version - extra info:</td>
<td>5.0</td>
</tr>
<tr>
<td>Difficulty:</td>
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</tr>
<tr>
<td>Affected version:</td>
<td>5.0</td>
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#### Description

If the include path added for xml/fftw also contains gmock than the external gmock headers instead of the internal ones are used, because the include folder order is wrong.

#### Associated revisions

**Revision d2221de6** - 07/01/2014 09:20 AM - Teemu Murtola

Adjust include directory order for some corner cases

Always add headers found from the source/build tree to the beginning of the list of include paths, such that they are preferred over those potentially found in other non-system directories.

Fixes #1539

Change-Id: ld79634073feaa5b10f250128db8bab08019a7f9e21

**Revision 411d1811** - 10/22/2015 03:23 PM - Teemu Murtola

Use include_directories(SYSTEM ...) consistently

Apparently, at least some compilers treat -isystem differently from -I in that no matter what the order on the command line is, -I always takes precedence. This means that some of the include_directories(BEFORE SYSTEM ...) did not work correctly, and in particular GMX_EXTERNAL_BOOST=OFF was broken. Likely also #1539 was (again) broken.

Make all includes that come from outside the source tree use SYSTEM, so that the include directory for internal boost still takes precedence over them.

Fixes #1844.

Change-Id: lb536c24a0d13c6538f78daac145dc8d38135819d

#### History

**#1 - 06/30/2014 06:14 AM - Teemu Murtola**

In general, this is an unsolvable problem if the system contains multiple copies of some headers at different versions in different paths. That said, it should be simple to put our internal include paths first. You probably get very interesting failures if you install an older Gromacs to the same prefix where, e.g., libxml2 is. :-)

**#2 - 07/01/2014 06:21 AM - Gerrit Code Review Bot**

Gerrit received a related patchset ’1’ for Issue #1539.

Uploader: Teemu Murtola (teemu.murtola@gmail.com)

Change-Id: ld79634073feaa5b10f250128db8bab08019a7f9e21

Gerrit URL: https://gerrit.gromacs.org/3793

**#3 - 07/01/2014 06:21 AM - Teemu Murtola**

- Category set to build system
Didn't test the fix uploaded to Gerrit, but this should be the general approach.

#4 - 07/06/2014 06:07 AM - Teemu Murtola
- Status changed from Fix uploaded to Closed
- Affected version - extra info set to 5.0

#5 - 10/18/2015 05:21 AM - Gerrit Code Review Bot
Gerrit received a related patchset '1' for Issue #1539.
Uploader: Teemu Murtola (teemu.murtola@gmail.com)
Change-Id: Ib536c24a0d13c6538f78daac145dc8d38135819d
Gerrit URL: https://gerrit.gromacs.org/5221