Gromacs - Bug #1735

BUILD_OWN_FFTW triggers no-SSE warning

05/14/2015 10:20 AM - Berk Hess

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
</tr>
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<tbody>
<tr>
<td>Priority:</td>
<td>Normal</td>
</tr>
<tr>
<td>Assignee:</td>
<td>Mark Abraham</td>
</tr>
<tr>
<td>Category:</td>
<td>build system</td>
</tr>
<tr>
<td>Target version:</td>
<td>5.0.6</td>
</tr>
<tr>
<td>Affected version:</td>
<td>5.0.5</td>
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<td>extra info:</td>
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**Description**

Due to my change d33720e6 setting BUILD_OWN_FFTW generates a warning about no SSE being enabled in FFTW. This is because I replaced the positive test on AVX by a negative test on SSE and AVX_128. Apparently BUILD_OWN_FFTW sets HAVE_SIMD somewhere. I don't fully understand how this works, so it might be better if someone else fixes this.

**Associated revisions**

Revision 50b9000d - 05/15/2015 12:01 AM - Mark Abraham

Fix own-FFTW build

Recent changes broke the expectation that the own-FFTW build attempts to pretend to have run SIMD-support tests on the build that it has not yet performed. This is all more complicated than it needs to be, and will be refactored in master branch.

Fixes #1735

Change-Id: I9e5f296b199b6b5af685fa2ba87cc962a41a251f

Revision 6ce08bf1 - 05/19/2015 11:38 AM - Mark Abraham

Refactor FFTW setup

It proved bug-prone to have both own-FFTW and find-FFTW mechanisms try to fulfill the same contract, and it was not needed in the first place. We do not need to fake the results of SIMD tests just to avoid our own warnings (and that was all that they were used for; mdrun does further SIMD-support detection at run time after possible dynamic linking of FFTW.

Now we check when there is something to check, and not when there is not. Removed TOD0s and comments no longer appropriate for the refactored code.

Refs #1735

Change-Id: Ie470fc29cb0b9ccad998698e9b9bda4af99dbf
History

#1 - 05/14/2015 11:38 AM - Mark Abraham
- Status changed from New to In Progress
- Assignee set to Mark Abraham

#2 - 05/14/2015 11:45 AM - Gerrit Code Review Bot
Gerrit received a related patchset '1' for Issue #1735.
Uploader: Mark Abraham (mark.j.abraham@gmail.com)
Change-Id: I9e5f296b199b6b5af685fa2ba87cc962a41a251f
Gerrit URL: https://gerrit.gromacs.org/4589

#3 - 05/14/2015 12:04 PM - Gerrit Code Review Bot
Gerrit received a related patchset '1' for Issue #1735.
Uploader: Mark Abraham (mark.j.abraham@gmail.com)
Change-Id: Ib470fc29cb0b9ccad998698e9b9bda4af9f99dbf
Gerrit URL: https://gerrit.gromacs.org/4590

#4 - 06/04/2015 10:47 AM - Berk Hess
- Status changed from In Progress to Closed

Fixed for 5.0.6.