

GROMACS - Bug #2022

Compilation fails with CUDA and gcc 5

08/04/2016 06:59 PM - Semen Yesylevskyy

Status: Closed	
Priority: Normal	
Assignee:	
Category:	
Target version: 5.1.4	
Affected version - extra info:	Difficulty: simple
Affected version: 5.1.3	
Description	
When compiling with CUDA and gcc 5+ compilation fails on libgromacs_generated_nbnxn_cuda.cu. This problem is known: https://mailman-1.sys.kth.se/pipermail/gromacs.org_gmx-users/2016-May/105608.html and it is very confusing for unexperienced users since cmake indicates no problems but the build fails. Cmake should either emit an error when such combination of nvcc and gcc occurs or the fix indicated in the link should be added.	
Related issues:	
Related to GROMACS - Task #1982: work around compilation error with nvcc + gl...	Closed

Associated revisions

Revision 0bda8e71 - 09/06/2016 11:53 PM - Mark Abraham

Work around glibc 2.23 with CUDA

Note: Cherry-pick of e2cd2e2e from the 2016 branch.

Fixes #2022

Change-Id: Id9881efb3f26af341b9c89b4bd1f983a2149c9e4

History

#1 - 08/05/2016 12:33 AM - Mark Abraham

- Related to Task #1982: work around compilation error with nvcc + glibc 2.23 added

#2 - 08/05/2016 12:36 AM - Mark Abraham

Technically the problem lies with using a version of glibc (upon which gcc depends) that no released version of CUDA supports, so a proper action is to use gcc 4.9. However the work-around there is indeed effective.

We could try to backport our workaround from [#1982](#).

#3 - 08/30/2016 11:58 AM - Gerrit Code Review Bot

Gerrit received a related patchset '1' for Issue [#2022](#).

Uploader: Szilárd Páll (pall.szilard@gmail.com)

Change-Id: Id9881efb3f26af341b9c89b4bd1f983a2149c9e4

Gerrit URL: <https://gerrit.gromacs.org/6149>

#4 - 08/30/2016 12:00 PM - Szilárd Páll

- Status changed from New to Feedback wanted

- Difficulty simple added

- Difficulty deleted (uncategorized)

#5 - 09/07/2016 12:48 PM - Mark Abraham

- Status changed from Feedback wanted to Resolved

Applied in changeset [0bda8e719b607cfb1d03dabff0575e656b8df6fe](#).

#6 - 09/07/2016 02:41 PM - Mark Abraham

- *Status changed from Resolved to Closed*

- *Target version set to 5.1.4*