

GROMACS - Bug #2509

Gromacs 2018 does not compile on Windows with CUDA

05/22/2018 10:47 AM - Aleksei lupinov

Status: Closed	
Priority: Normal	
Assignee: Christoph Junghans	
Category: core library	
Target version: 2018.2	
Affected version - extra info:	Difficulty: simple
Affected version: 2018	
Description	
Per report on the user list:	
C:/tools/GROMACS/gromacs-2018.1/src/gromacs/mdlib/nbnxn_cuda/nvnxn_cuda.cu(646): error: expression must be a modifiable lvalue.	
The file nbnxn_cuda.cu in r2018 has 2 places like this:	
<pre>#if (defined(WIN32) defined(_WIN32)) /* Windows: force flushing WDDM queue */ stat = cudaStreamQuery(stream); #endif</pre>	
In one of those, stat stopped being declared as a local variable a while ago. This would have been caught half a year ago, if only we had a Windows + CUDA Jenkins config :-)	

Associated revisions

Revision 52677c57 - 05/22/2018 05:18 PM - Aleksei lupinov

Remove unused results of cudaStreamQuery()

Coincidentally fixes #2509 (Windows + CUDA compilation)

Change-Id: I032c5fab53bf83cf0ea8c0299d8752b10d1f6c0e

History

#1 - 05/22/2018 11:06 AM - Aleksei lupinov

- Description updated

#2 - 05/22/2018 11:07 AM - Aleksei lupinov

- Description updated

#3 - 05/22/2018 11:08 AM - Gerrit Code Review Bot

Gerrit received a related patchset '1' for Issue [#2509](#).

Uploader: Aleksei lupinov (a.yupinov@gmail.com)

Change-Id: gromacs~release-2018~I032c5fab53bf83cf0ea8c0299d8752b10d1f6c0e

Gerrit URL: <https://gerrit.gromacs.org/7928>

#4 - 05/22/2018 11:43 AM - Szilárd Páll

- Status changed from New to Fix uploaded

In one of those, stat stopped being declared as a local variable a while ago. This would have been caught half a year ago, if only we had a Windows + CUDA Jenkins config :-)

And we'd have that if the hardline position was not taken a few years ago that if we don't run code we should not build it ;) (e.g. Win/OSX + CUDA)

#5 - 05/22/2018 01:04 PM - Mark Abraham

Aleksei lupinov wrote:

Per report on the user list:

C:/tools/GROMACS/gromacs-2018.1/src/gromacs/mdlib/nbnxn_cuda/nvnxn_cuda.cu(646): error: expression must be a modifiable lvalue.

The file nbnxn_cuda.cu in r2018 has 2 places like this:

[...]

In one of those, stat stopped being declared as a local variable a while ago. This would have been caught half a year ago, if only we had a Windows + CUDA Jenkins config :-)

True, but more work than needed for this particular case.

It would have been better if the author and reviewers of <https://gerrit.gromacs.org/#/q/l69a6bb59dc8cae18fba539de49c977c0ee814d07.n.z> and remembered that we should only use the preprocessor for such things if the code in question cannot compile except under Windows.

#6 - 05/22/2018 07:15 PM - Aleksei lupinov

- *Status changed from Fix uploaded to Resolved*

Applied in changeset [52677c5758eb75b7a4e63ffd2f7c521d94a43cba](#).

#7 - 05/22/2018 10:23 PM - Mark Abraham

- *Status changed from Resolved to Closed*

- *Assignee set to Christoph Junghans*