

## GROMACS - Bug #573

### CMake doesn't detect Altivec support

09/28/2010 05:21 PM - Justin Lemkul

<b>Status:</b> Closed	
<b>Priority:</b> Normal	
<b>Assignee:</b> Erik Lindahl	
<b>Category:</b> build system	
<b>Target version:</b> 4.6	
<b>Affected version - extra info:</b>	<b>Difficulty:</b> uncategorized
<b>Affected version:</b>	
<b>Description</b>	
While installing 4.5.1 with CMake on PowerPC, the Altivec nonbonded kernels are not detected, although they are when installing using autoconf, even though these are non-functional (bug report to follow). The log file simply reports that standard kernels are being used:  Configuring nonbonded kernels... Configuring standard C nonbonded kernels...  Also related to the thread started here:  <a href="http://lists.gromacs.org/pipermail/gmx-users/2010-September/054352.html">http://lists.gromacs.org/pipermail/gmx-users/2010-September/054352.html</a>	
<b>Related issues:</b>	
Related to GROMACS - Bug #574: Using autoconf produces zero forces with Altivec	<b>Closed</b> <b>09/28/2010</b>
Related to GROMACS - Bug #682: Gromacs 4.5.3 fails to compile on ppc	<b>Closed</b> <b>01/24/2011</b>

### History

#### #1 - 11/08/2010 04:47 PM - Rossen Apostolov

I committed a patch: cc79213a5e0722715b63ad5c82f7fa7f4d2d3a70.

Can you check whether it works now?

#### #2 - 11/08/2010 09:31 PM - Justin Lemkul

(In reply to comment [#1](#))

I committed a patch: cc79213a5e0722715b63ad5c82f7fa7f4d2d3a70.

Can you check whether it works now?

Yes, it does. Thank you! The only weird part is that the use of Altivec kernels is not reported in the md.log file any more. Is this expected? I get the correct output, building with -DGMX\_ACCELERATION=ALTIVEC.

#### #3 - 11/08/2010 10:52 PM - Rossen Apostolov

Hmm... I think it should be saying "Configuring PPC/Altivec nonbonded kernels..." but I don't have a machine to test on

#### #4 - 11/08/2010 11:53 PM - Justin Lemkul

Created an attachment (id=565)  
config.h file generated by cmake

#### #5 - 11/08/2010 11:53 PM - Justin Lemkul

(In reply to comment [#4](#))

Created an attachment (id=565) [details]  
config.h file generated by cmake

I'm attaching my config.h file that cmake generated, in case that helps. I don't know how else to tell if things went as planned.

**#6 - 02/23/2011 03:14 AM - Szilárd Páll**

- Category changed from *mdrun* to *build system*
- Assignee deleted (*Erik Lindahl*)
- Target version deleted (*4.5.1*)

**#7 - 08/05/2012 07:34 AM - Teemu Murtola**

- Status changed from *New* to *Closed*
- Assignee set to *Erik Lindahl*
- Target version set to *4.6*

Altivec support has been removed in [5ba7125c](#) for 4.6, so closing this issue.

**Files**

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config.h	12.1 KB	11/08/2010	Justin Lemkul
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