GROMACS - Bug #1283

minor improvements to BGQ toolchain files

06/16/2013 10:03 PM - Jeff Hammond

<table>
<thead>
<tr>
<th>Status:</th>
<th>Closed</th>
</tr>
</thead>
<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></td>
</tr>
<tr>
<td>Affected version - extra info:</td>
<td></td>
</tr>
<tr>
<td>Affected version:</td>
<td>git master</td>
</tr>
<tr>
<td>Difficulty:</td>
<td>uncategorized</td>
</tr>
</tbody>
</table>

Description

From patch description:

when using either the C or C++ toolchain, the complimentary compiler is not properly identified, rather /usr/bin/g{cc,++} is, which may cause configuration problems. this patch fixes this issue.

ALCF strongly recommends the use of -O3 unless there is clear evidence that higher optimization has a (positive) effect on the quality of the code generation from XL. we find that XL frequently generates no faster and even slower code with -O4 and -O5 unless the code is specifically designed to be optimized for BGQ.

Associated revisions

Revision 6fd98a01 - 06/17/2013 12:07 AM - Jeff Hammond
Define both C and C++ compilers in BGQ toolchains; use -O3

When using either the C or C++ toolchain, the complimentary compiler is not properly identified, rather /usr/bin/g{cc,++} is, which may cause configuration problems. this patch fixes this issue.

ALCF strongly recommends the use of -O3 unless there is clear evidence that higher optimization has a (positive) effect on the quality of the code generation from XL. we find that XL frequently generates no faster and even slower code with -O4 and -O5 unless the code is specifically designed to be optimized for BGQ.

Fixes #1283

Change-Id: If32a507c6394e23106555741bdefbc0d554c3765

History

#1 - 06/20/2013 04:15 PM - Jeff Hammond
- Status changed from New to Resolved
- % Done changed from 0 to 100

Applied in changeset 6fd98a0179fe3328b6c0702d8bae4b4e05eca22d.

#2 - 12/03/2013 04:15 PM - Rossen Apostolov
- Status changed from Resolved to Closed

Files

0004-define-both-C-and-C-compilers-in-BGQ-toolchains-use-.patch  2.76 KB  06/16/2013  Jeff Hammond