Gromacs - Bug #1355

ThreadMPI.cmake TestAtomic.c check is not reliable

10/11/2013 12:39 AM - Roland Schulz

**Status:** Closed  
**Priority:** Low  
**Assignee:** Mark Abraham  
**Category:** build system  
**Affected version:** 4.6

**Description**
TestAtomic.c doesn't call any of the atomics. Thus the atomics are only syntax checked. Any compiler error which only occurs when macros are evaluated or compiler errors in later optimization/linker stages can't get noticed. An example is that the usage of sfence on MIC doesn't make the test fail. See [https://gerrit.gromacs.org/2690](https://gerrit.gromacs.org/2690)

**Associated revisions**
Revision 2bd564 - 10/18/2013 09:38 AM - Mark Abraham

Call atomics from TestAtomic.c

This exposes more compile-time errors than simply parsing the definitions. This makes CMake's diagnostics more useful with respect to atomic operations.

Fixes #1355

Change-Id: le1d6f1456570b98988cadc17cb7ac2b78d76ce3

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**History**

**#1 - 10/11/2013 01:52 PM - Mark Abraham**

- Assignee deleted (Sander Pronk)

For the record, Sander left academe in about July, so please don't assign things to him unless/until we hear from him again! :-)

**#2 - 10/11/2013 02:23 PM - Mark Abraham**

- Status changed from New to In Progress
- Assignee set to Mark Abraham

Suggested fix in [https://gerrit.gromacs.org/#q,le1d6f1456570b98988cadc17cb7ac2b78d76ce3.n.z](https://gerrit.gromacs.org/#q,le1d6f1456570b98988cadc17cb7ac2b78d76ce3.n.z). Please try it out on MIC - I can't.

**#3 - 10/18/2013 09:40 AM - Mark Abraham**

- Status changed from In Progress to Resolved
- % Done changed from 0 to 100

Applied in changeset 2bd564f2a9021c8721c06f1689492faa283413b.
#4 - 12/03/2013 04:22 PM - Rossen Apostolov

- Status changed from Resolved to Closed