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
Target version: 
Affected version - extra info: 
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

Associated revisions
Revision 2bd5f64f - 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: le1d6f14565700b98988cadc17cb7ac2b78d76ce3

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,Ie1d6f14565700b98988cadc17cb7ac2b78d76ce3.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 2bd5f64f2a9021c872fc06f1689492fea283413b.

#4 - 12/03/2013 04:22 PM - Rossen Apostolov
- Status changed from Resolved to Closed