NUMA should probably not be used under Cygwin

Patch 41fc4e43 apparently provided by Scott Field assumes that NUMA can be used under Cygwin. I have been able to find no evidence that it should. AFAIK pthreads should be fine under Cygwin.

Secondarily, src/gmxlib/thread_mpi/numa_malloc.c and include/thread_mpi/numa_malloc.h use some compiler flags to select whether to try to use NUMA, rather than the results of tests. Such tests only exist for CMake anyway, which raises the question why new functionality was added to the 4.5.5 release.

To resolve, I suggest changing the sense of the CYGWIN-related preprocessor conditionals in the above files. I'm happy to do this and test (so that we actually get some quality-assurance for 4.5.6), but perhaps this should be bounced to Scott for feedback.
Cygwin/whatever** may have contributed to 4.5.5 not compiling with threading under Cygwin (IssueID #833, which was fixed elsewhere).

Change-id: I07fa69825181e2b04cb8979889898f1d258d371

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Revision f57ec1b0 - 05/26/2012 06:28 AM - Mark Abraham
Continuing to fix threading on Cygwin
Fixes #833
Change-id: l5d577a149ad18b2955596d87c24dc42bf821e

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Revision f57ec1b0 - 05/26/2012 06:28 AM - Mark Abraham
Continuing to fix threading on Cygwin
Fixes #833
Change-id: l5d577a149ad18b2955596d87c24dc42bf821e

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History

#1 - 04/11/2012 12:34 PM - Rossen Apostolov
- Assignee set to Mark Abraham
- Target version set to 4.5.6

Yes, please check with Scott

#2 - 04/11/2012 01:06 PM - Mark Abraham
Sander's commit (hash above) was based on things Scott provided, but I'm not going to contact Scott when I think the issue is likely to be Sander's apparently mistaken assumption that NUMA is available under Cygwin. If we're not likely to hear from Sander, then I think the fix in https://gerrit.gromacs.org/#/c/704/ resolves this issue.

#3 - 04/16/2012 01:48 PM - Rossen Apostolov
- Status changed from New to Closed