Gromacs - Bug #1614
thread-MPI has broken support for operations on MPI_INT
10/02/2014 10:25 PM - Mark Abraham

Status: New
Priority: Low
Assignee: mdrun
Category: mdrun
Target version: 
Affected version - likely all versions with thread-MPI
Affected version: 4.6.7

Description
A thread-MPI compile-and-test of https://gerrit.gromacs.org/#/c/4116/2 shows that MPI_Allreduce(&bAllSet, &bAllSet_All, 1, MPI_INT, MPI_LAND, MPI_COMM_WORLD); calls a null function pointer, I suspect from mistaken use of INTTYPE in src/gmxlib/thread_mpi/tmpi_ops.h.

Fixing this is not required for any known problem (if my guess is right, any such would also call a null function pointer, and we have no reports of that; also we have no use of MPI_LAND in the current code), but it's recorded here for posterity.

Related issues:
Related to Gromacs - Bug #1613: Problem with 4.6.x MPI, thread affinity, slurm... Closed

History
#1 - 10/02/2014 10:27 PM - Mark Abraham
- Parent task set to #1613

#2 - 10/02/2014 10:28 PM - Mark Abraham
- Parent task deleted (#1613)

#3 - 10/02/2014 10:28 PM - Mark Abraham
- Related to Bug #1613: Problem with 4.6.x MPI, thread affinity, slurm and node-uneven task spread added