GROMACS - Task #1643
improve CPU/GPU hardware reporting

11/17/2014 07:22 PM - Szilárd Páll

Status: Closed
Priority: Normal
Assignee: core library
Category: core library
Target version: 2016
Difficulty: uncategorized

Description
The CPU and GPU hardware information is presented in a somewhat inconsistent manner. Additionally, with the NVML support (see [https://gerrit.gromacs.org/#/c/4170](https://gerrit.gromacs.org/#/c/4170)) more GPU information is presented to the user outside the detection report. Later when OpenCL support will be merged there will be yet another source of hardware information.

We should try to unify these and make the reporting more coherent and better organized.

Associated revisions
Revision 12867f75 - 06/13/2015 11:47 AM - Berk Hess
Hardware reporting now covers all nodes

The CPU and GPU hardware reporting and checking were only printed for the node(s) of the master rank(s) of each simulation. Now the most important CPU and GPU information is reduced over MPI_COMM_WORLD. These results are printed and checks/warnings are now based on this. Because this is now system wide, the printing is moved up to directly after the detection and GPU info is printed together with CPU info. The Gromacs reference printing is moved to after hardware printing.

Refs #1643.

Change-Id: I974871c9a293a922dd1db9df633d485f62996ae

History
#1 - 04/29/2015 12:19 PM - Gerrit Code Review Bot
Gerrit received a related patchset '1' for Issue #1643.
Uploader: Berk Hess (hess@kth.se)
Change-Id: I974871c9a293a922dd1db9df633d485f62996ae
Gerrit URL: [https://gerrit.gromacs.org/4536](https://gerrit.gromacs.org/4536)

#2 - 02/15/2016 08:37 PM - Szilárd Páll
- Status changed from New to Feedback wanted
- Target version changed from 5.x to 2016

With the above change, plus [ecafd20](https://gerrit.gromacs.org/4536) and possibly others, this issue can be considered resolved.

Does anyone think otherwise?

#3 - 03/09/2016 07:11 PM - Szilárd Páll
- Status changed from Feedback wanted to Resolved

#4 - 03/09/2016 07:11 PM - Szilárd Páll
- Status changed from Resolved to Closed