

GROMACS - Task #2850

assess Raptor Talos for testing

01/30/2019 12:04 PM - Szilárd Páll

Status:	In Progress
Priority:	Normal
Assignee:	Szilárd Páll
Category:	testing
Target version:	
Difficulty:	simple
Description	
<p>We have a Raptor Systems Talos II that we plan to use primarily for correctness testing and CI. As a first step we will check builds of 2019 using the relevant compilers (latest and default GNU on IBM Power9 platforms, i.e. gcc 6 and 8).</p> <p>Secondly, we will assess how well does the performance of this CPU/system represent that of an IBM Power9 before doing further performance testing / compiler flag checks (lower prio).</p>	

History

#1 - 01/30/2019 12:09 PM - Szilárd Páll

- Description updated

#2 - 01/30/2019 04:02 PM - Szilárd Páll

gcc 6, 7, and 8 builds work fine and pass the in-tree regressiontesting (3 runs each), will check different run configs for regressiontest runs too to see if [#2747](#) can be reproduced.

#3 - 01/31/2019 07:12 PM - Szilárd Páll

- File *make-check-gcc6.log* added

- File *make-check-gcc7.log* added

- File *make-check-gcc8.log* added

Some funny compiler warnings aside -- which I'm not sure are worth working around unless we encounter them in our CI -- compilation and unit/regression tests are all fine with the default Power9 flags.

Attached are the build output logs.

However, looking at the differences between the Power8 and Power9 support to track down [#2747](#) I noticed that on Power8 we use `-mpower8-fusion`, but on Power9 this flag was dropped. Adding it back *seems* to allow reproducing possibly both [#2746](#) and [#2747](#).

#4 - 02/12/2019 01:14 PM - Szilárd Páll

Update: from the pov of general development things look good and is helped tracking down other issues. Performance testing will have to wait to compare against IBM Power9.

Files

File Name	Size	Date	Owner
make-check-gcc6.log	183 KB	01/30/2019	Szilárd Páll
make-check-gcc7.log	185 KB	01/30/2019	Szilárd Páll
make-check-gcc8.log	185 KB	01/30/2019	Szilárd Páll