GROMACS - Bug #2811

CUDA binary target support check can't work

12/18/2018 01:08 AM - Szilárd Páll

Status:	Closed			
Priority:	Normal			
Assignee:				
Category:	mdrun			
Target version:	2019			
Affected version - extra info:	2018	**Difficulty:**	uncategorized	
Affected version:	2019-rc1			

Description

The check that verifies whether mdrun includes code that can run on the detected, but otherwise supported GPU has been ineffective as it is called at gpu_init() time while the sanity checker dummy kernel will already fail to launch earlier when mdrun doesn't have code to run on the device.

checkCompiledTargetCompatibility() should clearly be called earlier.

Related issues:

Related to GROMACS - Bug #2810: running on Fermi throws cryptic error	**Closed**

Associated revisions

Revision d53b7788 - 12/20/2018 10:35 PM - Szilárd Páll

Fix CUDA compiled target-device compatibility check

The check that should catch cases where the binary does not contain
suitable code for the otherwise supported GPU architecture was
erroneously called from the initialization which is too late to
actually trigger it as the error that is meant to prevent will be
already triggered when the sanity checker tries to launch the dummy
kernel.
This change moves the check in question into the sanity checking and
keeps the fatal error as this is a rare condition that's unexpected
and typically a result of a misconfiguration at GROMACS build time.

Fixes #2811

Change-Id: l3762f51077a7c7c80b533860758bbab385b8a1fe

History

#1 - 12/18/2018 01:08 AM - Szilárd Páll

- Related to Bug #2810: running on Fermi throws cryptic error added

#2 - 12/18/2018 01:49 AM - Gerrit Code Review Bot

Gerrit received a related patchset '1' for Issue [#2811](#).
Uploader: Szilárd Páll (pall.szilard@gmail.com)
Change-Id: gromacs~release-2019~l3762f51077a7c7c80b533860758bbab385b8a1fe
Gerrit URL: https://gerrit.gromacs.org/8845

#3 - 12/18/2018 01:49 AM - Szilárd Páll

- Status changed from New to Fix uploaded

#4 - 12/18/2018 01:49 AM - Szilárd Páll

- Target version set to 2019

#5 - 12/20/2018 10:45 PM - Szilárd Páll

- Status changed from Fix uploaded to Resolved

Applied in changeset [d53b77885d1ff24e8c4da09624dce7cdc93a7e90](#).

#6 - 12/21/2018 09:19 AM - Paul Bauer

- Status changed from Resolved to Closed