GROMACS - Task #2905

Task # 3047 (Feedback wanted): Set required versions for GROMACS 2021

Add a Jenkins configuration with std library assert

03/26/2019 06:04 PM - Roland Schulz

Status:	New
Priority:	Normal
Assignee:	
Category:	
Target version:	
Difficulty:	uncategorized

Description

libc++ support this with _LIBCPP_DEBUG=1 (http://releases.llvm.org/8.0.0/projects/libcxx/docs/DesignDocs/DebugMode.html#using-debug-mode). Using that found multiple real bugs: https://gerrit.gromacs.org/c/9357/ . MSVC's std-lib also supports this: https://docs.microsoft.com/en-us/cpp/standard-library/debug-iterator-support?view=vs-2017 using either debug build or _ITERATOR_DEBUG_LEVEL. But we don't have any configuration in Jenkins which enables this mode for either libc++ (_LIBCPP_DEBUG) or MSVC (_ITERATOR_DEBUG_LEVEL or Debug build). Ideally we should have one configuration for each (or test whether they both find the same set of bugs) but we should at least have one configuration.

Related issues:

Related to GROMACS - Task #2899: Update testing matrix versions for GROMACS 2...	**Closed**

History

#1 - 03/26/2019 06:05 PM - Roland Schulz

- Description updated

#2 - 03/27/2019 05:56 PM - Roland Schulz

It is also available in libstdc++: https://gcc.gnu.org/onlinedocs/libstdc++/manual/debug_mode.html . I looked in the wrong place in the code (not being aware of the wrapper model they use) making me think it has no significant support of this.

#3 - 04/16/2019 09:59 AM - Mark Abraham

- Related to Task #2899: Update testing matrix versions for GROMACS 2020 release added

#4 - 04/16/2019 10:01 AM - Mark Abraham

Sure that sounds like a good idea. I suggest we start with that in the nightly matrix, until we get a handle on how slow it might be.

#5 - 08/23/2019 03:29 PM - Mark Abraham

- Parent task set to #3065

Added a parent task for 2021, since this won't happen for 2020 release

#6 - 08/24/2019 05:22 PM - Mark Abraham

- Parent task changed from #3065 to #3047