

## GROMACS - Task #2905

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

### Add a Jenkins configuration with std library assert

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

<b>Status:</b> New	
<b>Priority:</b> Normal	
<b>Assignee:</b>	
<b>Category:</b>	
<b>Target version:</b>	
<b>Difficulty:</b> uncategorized	
<b>Description</b> libc++ support this with <code>_LIBCPP_DEBUG=1</code> ( <a href="http://releases.lvm.org/8.0.0/projects/libcxx/docs/DesignDocs/DebugMode.html#using-debug-mode">http://releases.lvm.org/8.0.0/projects/libcxx/docs/DesignDocs/DebugMode.html#using-debug-mode</a> ). Using that found multiple real bugs: <a href="https://gerrit.gromacs.org/c/9357/">https://gerrit.gromacs.org/c/9357/</a> . MSVC's std-lib also supports this: <a href="https://docs.microsoft.com/en-us/cpp/standard-library/debug-iterator-support?view=vs-2017">https://docs.microsoft.com/en-us/cpp/standard-library/debug-iterator-support?view=vs-2017</a> using either debug build or <code>_ITERATOR_DEBUG_LEVEL</code> . But we don't have any configuration in Jenkins which enables this mode for either libc++ ( <code>_LIBCPP_DEBUG</code> ) or MSVC ( <code>_ITERATOR_DEBUG_LEVEL</code> 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.	
<b>Related issues:</b> Related to GROMACS - Task #2899: Update testing matrix versions for GROMACS 2... <b>In Progress</b>	

### 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](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