GROMACS - Bug #2683
GCC 8.1 warnings
10/09/2018 08:56 PM - Roland Schulz

Status: Closed
Priority: Normal
Assignee: 
Category: 
Target version: 2019-rc1
Affected version - extra info: 
Affected version: git master
Difficulty: uncategorized

Description
The TNG warnings make sense why we don't see them in Jenkins. The only gcc 8 configuration is without TNG. For the other warnings I'm not sure. I don't have a local 8.2 install to test whether this is an issue with 8.1 or some other difference to the Jenkins configuration.

```
../src/external/tng_io/src/lib/tng_io.c: In function â€˜tng_time_get_strâ€™:
../src/external/tng_io/src/lib/tng_io.c:15187:24: warning: â€˜%02dâ€™ directive output may be truncated writing between 2 and 11 bytes into a region of size between 0 and 16 [-Wformat-truncation=] "%4d-%02d-%02d %02d:%02d:%02d",
^~~~
#define TNG_SNPRINTF snprintf
^..
[713/1186] Building CXX object src/gromacs/CMakeFiles/libgromacs.dir/fileio/checkpoint.cpp.o
../src/gromacs/fileio/checkpoint.cpp: In function â€˜int do_cpt_files(XDR*, gmx_bool, std::vector<gmx_file_position_t>**, FILE*, int)&â€™:
../src/gromacs/fileio/checkpoint.cpp:1778:25: warning: â€˜char* strncpy(char*, const char*, size_t)â€™ output may be truncated copying 1023 bytes from a string of length 1023 [-Wstringop-truncation]
std::strncpy(outputfile.filename, buf.data(), buf.size()-1);
~~~~~~~~~~~~^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
[794/1186] Building CXX object src/gromacs/CMakeFiles/libgromacs.dir/gmxpreprocess/gen_vsite.cpp.o
../src/gromacs/gmxpreprocess/gen_vsite.cpp: In function â€˜void read_vsite_database(const char*, t_vsiteconf**, int*, t_vsiteetop**, int*)&â€™:
../src/gromacs/gmxpreprocess/gen_vsite.cpp:282:36: warning: â€˜char* strncpy(char*, const char*, size_t)â€™ output may be truncated copying 31 bytes from a string of length 4095 [-Wstringop-truncation]
strncpy(vsitetoplist[i].resname, dirstr, MAXNAME-1);
~~~~~~~~~~~^~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
```

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../src/gromacs/gmxana/gmx_wham.cpp:1516:73: note: length computed here
    sprintf(fn, "%s_bs%d.xvg", std::strncpy(buf, fnhist, std::strlen(fnhist)-4), bs_index);
~~~~~~~~~~~^~~~~~~~

Associated revisions

Revision e26e0599 - 11/28/2018 10:27 PM - Paul Bauer
Fix gcc-8 warnings

Changed copying of temporary file names to use gmx::Path, changed copying of C character arrays to use std::copy. Annotated code where safer string copying was needed.

Did not try to fix the warnings in tng.

Fixes #2683

Change-Id: l431b55dfa39a654fb9f20a78470f190da7666993

History

#1 - 10/15/2018 05:27 PM - Mark Abraham
- Target version changed from 2019-beta1 to 2019-beta2

#2 - 11/05/2018 10:07 AM - Paul Bauer
- Target version changed from 2019-beta2 to 2019-beta3

Any progress on this one?

#3 - 11/21/2018 07:55 AM - Mark Abraham
Not yet. Once we're done with the beta, can you work on these please Paul?

#4 - 11/21/2018 09:14 AM - Paul Bauer
Will work on this later today

#5 - 11/21/2018 02:57 PM - Paul Bauer
- Target version changed from 2019-beta3 to 2019-rc1

Won't be in time for beta3

#6 - 11/22/2018 11:21 AM - Paul Bauer
I just tried reproducing this with gcc-8.2.0-8 on Debian, and the warnings don't show up (compiling with -Werror to make sure). What are the build options here?

#7 - 11/22/2018 11:45 AM - Paul Bauer
ok, the warnings only show up in a release build :)

#8 - 11/23/2018 02:08 PM - Gerrit Code Review Bot
Gerrit received a related patchset '1' for Issue #2683.
Uploader: Paul Bauer (paul.bauer.q@gmail.com)
Change-Id: gromacs--release-2019--l431b55dfa39a654fb9f20a78470f190da7666993
Gerrit URL: https://gerrit.gromacs.org/8745

#9 - 11/28/2018 10:30 PM - Paul Bauer
- Status changed from New to Resolved

Applied in changeset e26e0599181ac8f7ba17c23e2cd0465349e14af.

#10 - 11/29/2018 10:38 AM - Mark Abraham
- Status changed from Resolved to Closed