Audacious - OLD, PLEASE USE GITHUB DISCUSSIONS/ISSUES - Bug #1203

Build warning

February 12, 2023 16:32 - Artem S. Tashkinov

Status:	Rejected		**Start date:**	February 12, 2023
Priority:	Minor		**Due date:**	
Assignee:			**% Done:**	0%
Category:			**Estimated time:**	0.00 hour
Target version:	4.3			
Affects version:	4.3			

Description

```
Leaving directory aosd.
In function '__copy_m',
inlined from '__copy_move_a2' at /usr/include/c++/12/bits/stl_algobase.h:495:30,
inlined from '__copy_move_a1' at /usr/include/c++/12/bits/stl_algobase.h:522:42,
inlined from '__copy_move_a' at /usr/include/c++/12/bits/stl_algobase.h:529:31,
inlined from 'copy' at /usr/include/c++/12/bits/stl_algobase.h:620:7,
inlined from '__uninit_copy' at /usr/include/c++/12/bits/stl_uninitialized.h:147:27,
inlined from 'uninitialized_copy' at /usr/include/c++/12/bits/stl_uninitialized.h:185:15,
inlined from '__uninitialized_copy_a' at /usr/include/c++/12/bits/stl_uninitialized.h:372:37,
inlined from '__uninitialized_move_if_noexcept_a' at /usr/include/c++/12/bits/stl_uninitialized.h:397:2,
inlined from '_M_fill_insert' at /usr/include/c++/12/bits/vector.tcc:594:7,
inlined from 'resize' at /usr/include/c++/12/bits/stl_vector.h:1032:18,
inlined from 'mc_alloc' at desmume/mc.cc:90:17,
inlined from 'MMU_Init' at desmume/MMU.cc:731:10,
inlined from 'NDS_Init' at desmume/NDSSystem.cc:43:10,
inlined from 'play' at plugin.cc:334:17:
/usr/include/c++/12/bits/stl_algobase.h:431:30: warning: '__builtin_memcpy' writing 1 or more bytes into a region of size 0 overflows the destination [-Wstringop-overflow=]
431 |          __builtin_memmove(__result, __first, sizeof(_Tp) * _Num);      |                          ^
In member function 'allocate',
inlined from 'allocate' at /usr/include/c++/12/bits/alloc_traits.h:464:28,
inlined from '_M_allocate' at /usr/include/c++/12/bits/stl_vector.h:378:33,
inlined from '_M_fill_insert' at /usr/include/c++/12/bits/vector.tcc:575:45,
inlined from 'resize' at /usr/include/c++/12/bits/stl_vector.h:1032:18,
inlined from 'mc_alloc' at desmume/mc.cc:90:17,
inlined from 'MMU_Init' at desmume/MMU.cc:731:10,
inlined from 'NDS_Init' at desmume/NDSSystem.cc:43:10,
inlined from 'play' at plugin.cc:334:17:
/usr/include/c++/12/bits/new_allocator.h:137:55: note: at offset 262144 into destination object of size 262144 allocated by 'operator new'
137 |      return static_cast<_Tp*>(GLIBCXX_OPERATOR_NEW(_n * sizeof(_Tp)));      |
Successfully linked console.so.
Leaving directory console.
```

No idea where it happens. Could it be console?

History

#1 - February 12, 2023 16:39 - Artem S. Tashkinov

This is when compiling/building audacious-plugins-4.3-beta1.tar.bz2

#2 - February 13, 2023 23:55 - Thomas Lange

Compile with -j1 or search for the "desmume/*.cc" folder/file. You will see this warning is from linking xsf.
--> https://github.com/audacious-media-player/audacious-plugins/pull/106#issuecomment-1133286466

Which compiler and build system do you use? Does the workaround work for you too?

#3 - February 21, 2023 07:48 - Artem S. Tashkinov

Thomas Lange wrote:

> Compile with -j1 or search for the "desmume/*.cc" folder/file. You will see this warning is from linking xsf.
> --> https://github.com/audacious-media-player/audacious-plugins/pull/106#issuecomment-1133286466
>
> Which compiler and build system do you use? Does the workaround work for you too?

I use Fedora 37.

```
gcc --version
gcc (GCC) 12.2.1 20221121 (Red Hat 12.2.1-4)

export CFLAGS="-O2 -mtune=generic -pipe -flto=auto"
export CXXFLAGS="$CFLAGS"
```

The issue is here:

```
Successfully compiled desmume/slot1_retail.cc (plugin).
(the same errors)
Successfully linked xsf.so.
```

#4 - February 21, 2023 07:50 - Artem S. Tashkinov

The linked patch fixes the issue.

```
diff --git a/src/xsf/desmume/mc.cc b/src/xsf/desmume/mc.cc
index dd6e670b1..648a5c89e 100644
--- a/src/xsf/desmume/mc.cc
+++ b/src/xsf/desmume/mc.cc
@@ -87,7 +87,7 @@ void mc_init(memory_chip_t *mc, int type)
 uint8_t *mc_alloc(memory_chip_t *mc, uint32_t size)
 {
        mc->data.clear();
-       mc->data.resize(size, 0);
+       mc->data.resize(size);
        mc->size = size;
        mc->writeable_buffer = true;
```

#5 - February 21, 2023 17:27 - John Lindgren

This seems to be the same as https://gcc.gnu.org/bugzilla/show_bug.cgi?id=100366 which will supposedly be fixed in GCC 12.3.

#6 - February 21, 2023 18:05 - John Lindgren

- Status changed from New to Rejected

Closing, as it's a compiler bug. The warning is a false-positive and harmless.