
Subject: Re: Problem with MemorySanitizer
Posted by [mirek](#) on Fri, 02 Apr 2021 16:09:16 GMT
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jjacksonRIAB wrote on Fri, 02 April 2021 17:16

```
#include <Core/Core.h>
```

```
#include <portaudio.h>
```

```
using namespace Upp;
```

```
void test() {  
    Pa_Initialize();  
}
```

```
INITBLOCK {  
    test();  
}
```

```
int main(int argc, const char *argv[]) {  
    return 0;  
}
```

Clang, linux.

Uninitialized bytes in __interceptor_strcmp at offset 8 inside [0x7010000002f0, 9)

==5039==WARNING: MemorySanitizer: use-of-uninitialized-value

```
#0 0x7fe8e59f8fea (/usr/lib/x86_64-linux-gnu/libasound.so.2+0x2dfea)  
#1 0x7fe8e59f9e65 (/usr/lib/x86_64-linux-gnu/libasound.so.2+0x2ee65)  
#2 0x7fe8e59fa3fe (/usr/lib/x86_64-linux-gnu/libasound.so.2+0x2f3fe)  
#3 0x7fe8e59fd77e in snd_config_update_r (/usr/lib/x86_64-linux-gnu/libasound.so.2+0x3277e)  
#4 0x7fe8e59fde0d in snd_config_update_ref  
(/usr/lib/x86_64-linux-gnu/libasound.so.2+0x32e0d)  
#5 0x7fe8e5a088b9 in snd_ctl_open (/usr/lib/x86_64-linux-gnu/libasound.so.2+0x3d8b9)  
#6 0x7fe8e6016737 (/usr/lib/x86_64-linux-gnu/libportaudio.so.2+0x11737)  
#7 0x7fe8e601a33c in PaAlsa_Initialize (/usr/lib/x86_64-linux-gnu/libportaudio.so.2+0x1533c)  
#8 0x7fe8e600d10f in Pa_Initialize (/usr/lib/x86_64-linux-gnu/libportaudio.so.2+0x810f)  
#9 0x4a10f6 in test() /mnt/ssd-b/MyApps/inittest/inittest.cpp:7:2  
#10 0x4a1108 in s__s10_fn() /mnt/ssd-b/MyApps/inittest/inittest.cpp:11:2  
#11 0x4a1259 in Upp::Callinit::Callinit(void (*)(), char const*, int)  
/home/borntactical/upp.src/uppsrc/Core/Defs.h:86:83  
#12 0x422914 in __cxx_global_var_init /mnt/ssd-b/MyApps/inittest/inittest.cpp:10:1  
#13 0x422928 in __GLOBAL__sub_I_inittest.cpp /mnt/ssd-b/MyApps/inittest/inittest.cpp  
#14 0x90de0c in __libc_csu_init  
(/home/borntactical/out/MyApps/CLANGsanitize.Debug.Debug_Full.Shared.Usemalloc/inittest+0x  
90de0c)  
#15 0x7fe8e5aed03f in __libc_start_main
```

/build/glibc-eX1tMB/glibc-2.31/csu/../csu/libc-start.c:264:6

#16 0x42601d in _start

(/home/borntactical/out/MyApps/CLANGsanitize.Debug.Debug_Full.Shared.Usemalloc/inittest+0x42601d)

SUMMARY: MemorySanitizer: use-of-uninitialized-value

(/usr/lib/x86_64-linux-gnu/libasound.so.2+0x2dfea)

Exiting

<--- Finished, press [ENTER] to close the window --->

I brought it up because it makes me wonder if an INITBLOCK is causing that complaint too

I actually think that the cause here is that INITBLOCK runs before main - it is possible that something in those libs is not initialised yet at that point.

Does it behave the same in main?
