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Subject: Re: Problem with MemorySanitizer  
Posted by [mirek](#) on Fri, 02 Apr 2021 16:09:16 GMT  
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jacksonRIAB 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+0x90de0c)
#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+0x
42601d)

SUMMARY: MemorySanitizer: use-of-uninitialized-value
(/usr/lib/x86_64-linux-gnu/libasound.so.2+0x2dfa)
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?

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