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Subject: MemorySanitizer: use-of-uninitialized-value in CoWork

Posted by [Novo](#) on Fri, 19 Jul 2019 20:17:48 GMT

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Could you please apply a patch below to CoWork?

MemorySanitizer is complaining about uninitialized memory. Theoretically, default constructor of std::exception\_ptr is supposed to initialized it, but practically I'm getting a warning.

The problem can be easily fixed.

```
diff --git a/uppsrc/Core/CoWork.cpp b/uppsrc/Core/CoWork.cpp
index 46e49dc15..abfbbae2b8 100644
--- a/uppsrc/Core/CoWork.cpp
+++ b/uppsrc/Core/CoWork.cpp
@@ -113,7 +113,7 @@ void CoWork::Pool::DoJob(MJob& job)
}

lock.Leave();
- std::exception_ptr exc;
+ std::exception_ptr exc = nullptr;
try {
    if(looper)
        work->looper_fn();
@@ -370,6 +370,7 @@ int CoWork::GetWorkerIndex()
}

CoWork::CoWork()
+: exc(nullptr)
{
    LLOG("CoWork constructed " << FormatHex(this));
    todo = 0;
```

Patched file is attached.

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#### File Attachments

1) [CoWork.cpp](#), downloaded 257 times

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Subject: Re: MemorySanitizer: use-of-uninitialized-value in CoWork

Posted by [mirek](#) on Fri, 19 Jul 2019 21:50:42 GMT

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This really feels like sanitizer bug, but whatever....

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Subject: Re: MemorySanitizer: use-of-uninitialized-value in CoWork

Posted by [Novo](#) on Fri, 19 Jul 2019 23:27:28 GMT

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mirek wrote on Fri, 19 July 2019 17:50This really feels like sanitizer bug, but whatever....  
Thanks!

I do not think this is a bug. A team working on sanitizers is exceptionally good.  
MemorySanitizer reports all uninitialized memory reads, including, for example, memmove and  
memcpy of uninitialized memory. This is not necessarily a bug, but this allows the sanitizer to be  
fast unlike valgrind.

The problem is that all sanitizers exit app on first detected error.

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Subject: Re: MemorySanitizer: use-of-uninitialized-value in CoWork

Posted by [mirek](#) on Sat, 20 Jul 2019 06:56:25 GMT

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Novo wrote on Sat, 20 July 2019 01:27mirek wrote on Fri, 19 July 2019 17:50This really feels like  
sanitizer bug, but whatever....

Thanks!

I do not think this is a bug. A team working on sanitizers is exceptionally good.  
MemorySanitizer reports all uninitialized memory reads, including, for example, memmove and  
memcpy of uninitialized memory. This is not necessarily a bug, but this allows the sanitizer to be  
fast unlike valgrind.

The problem is that all sanitizers exit app on first detected error.

Well, but obviously we are not doing anything bad here. So it must be either a bug in sanitizer or  
in standard library (or perhaps in compiler).

Mirek

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