
Subject: Re: ide: Assist parsing now parallel and some of it background

Posted by [mirek](#) on Tue, 23 Jun 2020 15:02:27 GMT

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Novo wrote on Tue, 23 June 2020 15:24mirek wrote on Tue, 23 June 2020 04:54

I am trying to decipher that, but so far it `_looks_` like races in GTK. Or maybe false reports of races in GTK...

IMHO, it is very unlikely that GTK has races. Maybe, it just requires extra-synchronization ...

Well, the first error reported by sanitizer

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WARNING: ThreadSanitizer: data race (pid=27062)

Read of size 8 at 0x7b04000096a0 by thread T1:

#0 strlen <null> (libtsan.so.0+0x31275)

#1 pthread_setname_np ../sysdeps/unix/sysv/linux/pthread_setname.c:38

(libpthread.so.0+0x1391c)

#2 <null> <null> (libglib-2.0.so.0+0x7415d)

Previous write of size 8 at 0x7b04000096a0 by main thread (mutexes: write M505):

#0 malloc <null> (libtsan.so.0+0x2ae03)

#1 g_malloc <null> (libglib-2.0.so.0+0x51ab8)

#2 main /home/cxl/upp.src/uppsrc/ide/main.cpp:120 (debugide+0x51ee31)

Location is heap block of size 13 at 0x7b04000096a0 allocated by main thread:

#0 malloc <null> (libtsan.so.0+0x2ae03)

#1 g_malloc <null> (libglib-2.0.so.0+0x51ab8)

#2 main /home/cxl/upp.src/uppsrc/ide/main.cpp:120 (debugide+0x51ee31)

Mutex M505 (0x000001f35198) created at:

#0 pthread_mutex_init <null> (libtsan.so.0+0x2c5ad)

#1 Mutex /home/cxl/upp.src/uppsrc/Core/Mt.cpp:601 (debugide+0xbc27ac)

#2 Upp::StaticPrimitive_<Upp::Mutex>::Initialize() /home/cxl/upp.src/uppsrc/Core/Mt.h:313
(debugide+0x81c9ca)

#3 Upp::StaticPrimitive_<Upp::Mutex>::Get() /home/cxl/upp.src/uppsrc/Core/Mt.h:316
(debugide+0x81c901)

#4 Upp::StaticMutex::Enter() /home/cxl/upp.src/uppsrc/Core/Mt.h:323 (debugide+0x816818)

#5 Upp::EnterGuiMutex() /home/cxl/upp.src/uppsrc/CtrlCore/CtrlMt.cpp:15
(debugide+0x12d2658)

#6 GuiLock /home/cxl/upp.src/uppsrc/CtrlCore/CtrlCore.h:66 (debugide+0x7d5614)

#7 Upp::Ctrl::InstallKeyHook(bool (*)(Upp::Ctrl*, unsigned int, int))

/home/cxl/upp.src/uppsrc/CtrlCore/Ctrl.cpp:712 (debugide+0x12de181)

#8 Upp::s__sF29_328_fn() /home/cxl/upp.src/uppsrc/CtrlLib/MenuBar.cpp:330
(debugide+0x97a71c)

#9 Callinit /home/cxl/upp.src/uppsrc/Core/Defs.h:86 (debugide+0x583742)

#10 __cxx_global_var_init.120 /home/cxl/upp.src/uppsrc/CtrlLib/MenuBar.cpp:328

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(debugide+0x41311f)
  #11 _GLOBAL__sub_I_CtrlLib_blitz.cpp
/home/cxl/.cache/upp.out/uppsrc/CtrlLib/CLANG_TS.Debug.Debug_Full.Gui.Shared/CtrlLib$blitz.c
pp (debugide+0x413fc5)
  #12 __libc_csu_init <null> (debugide+0x154e76c)
```

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Thread T1 'dconf worker' (tid=27064, running) created by main thread at:
#0 pthread_create <null> (libtsan.so.0+0x2bcee)
#1 <null> <null> (libglib-2.0.so.0+0x9240f)
#2 main /home/cxl/upp.src/uppsrc/ide/main.cpp:120 (debugide+0x51ee31)
```

SUMMARY: ThreadSanitizer: data race (/usr/lib/x86_64-linux-gnu/libtsan.so.0+0x31275) in
__interceptor_strlen

This looks like "dconf worker", which I think is DBus related, is trying to set the name of thread to a value set by main gtk thread and passed by the heap. The only U++ code referenced is our locked mutex, which is really only listed because it is being locked at the same time...

Mirek
