```
[[clang::realtime]] void run_rt_thread()
   get_file_size();
    do malloc free();
   do _vector_reserve();
    do mutex lock unlock (m);
   do_read_file();
```

CMakeLists.txt:

```
target_compile_options(example PUBLIC
   -fsanitize=realtime
target_link_options(example PUBLIC
```

-fsanitize=realtime

```
#1 0xaaaad2a1b2ec in printDiagnostics /llvm-project/compiler-rt/lib/radsan/radsan_context.cpp:57:3
#2 0xaaaad2a1b2ec in radsan::Context::expectNotRealtime(char const*) /llvm-project/compiler-rt/lib/radsan/radsan_context.cpp:40:5
#3 0xaaaad2a1bde4 in expectNotRealtime /llvm-project/compiler-rt/lib/radsan/radsan interceptors.cpp:29:29
#4 0xaaaad2a1bde4 in free /llvm-project/compiler-rt/lib/radsan/radsan_interceptors.cpp:231:5
#5 0xaaaad2a404f0 in std::unique_ptr<std::filesystem::__cxx11::path::_List::_Impl_deleter>::~unique_ptr() /usr/lib/gcc/aarch64-linux-gnu/12/../../include/c++/12/bits/unique_ptr.h:396:4
#6 0xaaaad2a40460 in std::filesystem::__cxx11::path::_List::~_List() /usr/lib/gcc/aarch64-linux-gnu/12/../../../include/c++/12/bits/fs_path.h:688:24
#7 0xaaaad2a3fe6c in std::filesystem::__cxx11::path::~path() /usr/lib/gcc/aarch64-linux-gnu/12/../../../include/c++/12/bits/fs_path.h:354:21
#8 0xaaaad2a3f6c8 in do read file() /my repo/main.cpp:143:30
#9 0xaaaad2a3f32c in run_rt_thread() /my_repo/main.cpp:35:5
#10 0xaaaad2a3fba8 in main::$_0::operator()() const /my_repo/main.cpp:43:25
#11 0xaaaad2a3fb88 in void std::__invoke_impl<void, main::$_0>(std::__invoke_other, main::$_0&&) /usr/lib/gcc/aarch64-linux-gnu/12/../../../include/c++/12/bits/invoke.h:61:14
#12 0xaaaad2a3fb3c in std::__invoke_result<main::$_0>::type std::__invoke<main::$_0>(main::$_0&&) /usr/lib/gcc/aarch64-linux-gnu/12/../../../include/c++/12/bits/invoke.h:96:14
#13 0xaaaad2a3fb14 in void std::thread::_Invoker<std::tuple<main::$_0>>::_M_invoke<0ul>(std::_Index_tuple<0ul>) /usr/lib/gcc/aarch64-linux-gnu/12/../../include/c++/12/bits/std_thread.h:279:13
#14 0xaaaad2a3fae8 in std::thread::_Invoker<std::tuple<main::$_0>>::operator()() /usr/lib/gcc/aarch64-linux-gnu/12/../../../include/c++/12/bits/std_thread.h:286:11
#15 0xaaaad2a3fa4c in std::thread::_State_impl<std::thread::_Invoker<std::tuple<main::$_0>>>::_M_run() /usr/lib/gcc/aarch64-linux-gnu/12/../../../include/c++/12/bits/std_thread.h:231:13
#16 0xffffa66631f8 (/lib/aarch64-linux-gnu/libstdc++.so.6+0xd31f8) (BuildId: a012b2bb77110e84b266cd7425b50e57427abb02)
#17 0xffffa635d5c4 (/lib/aarch64-linux-gnu/libc.so.6+0x7d5c4) (BuildId: 317350dd9c806d5dfe9358afcdca6bf56f2b0a54)
```

Real-time violation: intercepted call to real-time unsafe function `free` in real-time context! Stack trace:

#0 0xaaaad2a1b56c in radsan::printStackTrace() /llvm-project/compiler-rt/lib/radsan/radsan stack.cpp:36:3

#18 0xffffa63c5d98 (/lib/aarch64-linux-gnu/libc.so.6+0xe5d98) (BuildId: 317350dd9c806d5dfe9358afcdca6bf56f2b0a54)



do_read_file();

do_vector_reserve();

[[clang::realtime]]

get_file_size();

do_malloc_free();

run_rt_thread()



m

do mutex lock unlock

target_compile_options(example

CMakeLists.txt:

-fsanitize=realtime



target_link_options(example

















































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































































