

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

```
#0 0xaaaaad2a1b56c in radsan::printStackTrace() /llvm-project/compiler-rt/lib/radsan/radsan_stack.cpp:36:3
#1 0xaaaaad2a1b2ec in printDiagnostics /llvm-project/compiler-rt/lib/radsan/radsan_context.cpp:57:3
#2 0xaaaaad2a1b2ec in radsan::Context::expectNotRealtime(char const*) /llvm-project/compiler-rt/lib/radsan/radsan_context.cpp:40:3
#3 0xaaaaad2a1bde4 in expectNotRealtime /llvm-project/compiler-rt/lib/radsan/radsan_interceptors.cpp:29:29
#4 0xaaaaad2a1bde4 in free /llvm-project/compiler-rt/lib/radsan/radsan_interceptors.cpp:231:5
#5 0xaaaaad2a404f0 in std::unique_ptr<std::filesystem::__cxx11::path::_List::_Impl, std::filesystem::__cxx11::path::_List::_Impl_deleter>::~~unique_ptr()
#6 0xaaaaad2a40460 in std::filesystem::__cxx11::path::_List::~~List() /usr/lib/gcc/aarch64-linux-gnu/12/../../../../include/c++/12/bits/fs_path.h:688:24
#7 0xaaaaad2a3fe6c in std::filesystem::__cxx11::path::~~path() /usr/lib/gcc/aarch64-linux-gnu/12/../../../../include/c++/12/bits/fs_path.h:354:21
#8 0xaaaaad2a3f6c8 in do_read_file() /my_repo/main.cpp:143:30
#9 0xaaaaad2a3f32c in run_rt_thread() /my_repo/main.cpp:35:5
#10 0xaaaaad2a3fba8 in main::$_0::operator>()() const /my_repo/main.cpp:43:25
#11 0xaaaaad2a3fb88 in void std::__invoke_impl<void, main::$_0>(std::__invoke_other, main::$_0&&) /usr/lib/gcc/aarch64-linux-gnu/12/../../../../include/c++/12/bits/std_function.h:280:14
#12 0xaaaaad2a3fb3c in std::__invoke_result<main::$_0>::type std::__invoke<main::$_0>(main::$_0&&) /usr/lib/gcc/aarch64-linux-gnu/12/../../../../include/c++/12/bits/std_function.h:280:14
#13 0xaaaaad2a3fb14 in void std::thread::_Invoker<std::tuple<main::$_0>>::_M_invoke<0ul>(std::_Index_tuple<0ul>) /usr/lib/gcc/aarch64-linux-gnu/12/../../../../include/c++/12/bits/std_thread.h:111:14
#14 0xaaaaad2a3fae8 in std::thread::_Invoker<std::tuple<main::$_0>>::operator>()() /usr/lib/gcc/aarch64-linux-gnu/12/../../../../include/c++/12/bits/std_thread.h:111:14
#15 0xaaaaad2a3fa4c 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:161:14
#16 0xfffffa66631f8 (/lib/aarch64-linux-gnu/libstdc++.so.6+0xd31f8) (BuildId: a012b2bb77110e84b266cd7425b50e57427abb02)
#17 0xfffffa635d5c4 (/lib/aarch64-linux-gnu/libc.so.6+0x7d5c4) (BuildId: 317350dd9c806d5dfe9358afcdca6bf56f2b0a54)
#18 0xfffffa63c5d98 (/lib/aarch64-linux-gnu/libc.so.6+0xe5d98) (BuildId: 317350dd9c806d5dfe9358afcdca6bf56f2b0a54)
```

Real-time violation: intercepted call to real-time unsafe function `malloc` in real-time context! Stack trace:
#9 0xaaaad2a3f3b0 in get_file_size() /my_repo/main.cpp:115:27

Real-time violation: intercepted call to real-time unsafe function `free` in real-time context! Stack trace:
#8 0xaaaad2a3f3d8 in get_file_size() /my_repo/main.cpp:118:1

Real-time violation: intercepted call to real-time unsafe function `malloc` in real-time context! Stack trace:
#5 0xaaaad2a3f41c in do_malloc_free() /my_repo/main.cpp:122:14

Real-time violation: intercepted call to real-time unsafe function `free` in real-time context! Stack trace:
#5 0xaaaad2a3f428 in do_malloc_free() /my_repo/main.cpp:123:5

Real-time violation: intercepted call to real-time unsafe function `malloc` in real-time context! Stack trace:
#11 0xaaaad2a3f458 in do_vector_reserve() /my_repo/main.cpp:129:7

Real-time violation: intercepted call to real-time unsafe function `free` in real-time context! Stack trace:
#11 0xaaaad2a3f464 in do_vector_reserve() /my_repo/main.cpp:130:1

Real-time violation: intercepted call to real-time unsafe function `pthread_mutex_lock` in real-time context! Stack trace:
#9 0xaaaad2a3f4b0 in do_mutex_lock_unlock(std::mutex&) /my_repo/main.cpp:135:22

Real-time violation: intercepted call to real-time unsafe function `pthread_mutex_unlock` in real-time context! Stack trace:
#9 0xaaaad2a3f4b8 in do_mutex_lock_unlock(std::mutex&) /my_repo/main.cpp:136:1

Real-time violation: intercepted call to real-time unsafe function `malloc` in real-time context! Stack trace:
#9 0xaaaad2a3f4ec in do_read_file() /my_repo/main.cpp:142:18

Real-time violation: intercepted call to real-time unsafe function `malloc` in real-time context! Stack trace:
#13 0xaaaad2a3f544 in do_read_file() /my_repo/main.cpp:147:27

Real-time violation: intercepted call to real-time unsafe function `malloc` in real-time context! Stack trace:
#10 0xaaaad2a3f560 in do_read_file() /my_repo/main.cpp:150:23

Real-time violation: intercepted call to real-time unsafe function `malloc` in real-time context! Stack trace:
#10 0xaaaad2a3f560 in do_read_file() /my_repo/main.cpp:150:23

Real-time violation: intercepted call to real-time unsafe function `fwrite` in real-time context! Stack trace:
#7 0xaaaad2a3f5bc in do_read_file() /my_repo/main.cpp:155:23

Real-time violation: intercepted call to real-time unsafe function `free` in real-time context! Stack trace:
#8 0xaaaad2a3f668 in do_read_file() /my_repo/main.cpp:159:14

Real-time violation: intercepted call to real-time unsafe function `fclose` in real-time context! Stack trace:
#8 0xaaaad2a3f668 in do_read_file() /my_repo/main.cpp:159:14

Real-time violation: intercepted call to real-time unsafe function `free` in real-time context! Stack trace:
#9 0xaaaad2a3f668 in do_read_file() /my_repo/main.cpp:159:14

Real-time violation: intercepted call to real-time unsafe function `free` in real-time context! Stack trace:
#11 0xaaaad2a3f67c in do_read_file() /my_repo/main.cpp:160:5

Real-time violation: intercepted call to real-time unsafe function `free` in real-time context! Stack trace:
#8 0xaaaad2a3f6c8 in do_read_file() /my_repo/main.cpp:143:30

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#2 0xaaaaad2a1b2ec in radsan::Context::expectNotRealtime(char const*) /llvm-project/compiler-rt/lib/radsan/radsan_context.cpp:40
#3 0xaaaaad2a1bde4 in expectNotRealtime /llvm-project/compiler-rt/lib/radsan/radsan_interceptors.cpp:29:29
#4 0xaaaaad2a1bde4 in free /llvm-project/compiler-rt/lib/radsan/radsan_interceptors.cpp:231:5
#5 0xaaaaad2a404f0 in std::unique_ptr<std::filesystem::__cxx11::path::_List::_Impl, std::filesystem::__cxx11::path::_List::_Impl_deleter>::~~unique_ptr()
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#11 0xaaaaad2a3fb88 in void std::__invoke_impl<void, main::$_0>(std::__invoke_other, main::$_0&&) /usr/lib/gcc/aarch64-linux-gnu/12/../../../../../include/
#12 0xaaaaad2a3fb3c in std::__invoke_result<main::$_0>::type std::__invoke<main::$_0>(main::$_0&&) /usr/lib/gcc/aarch64-linux-gnu/12/../../../../../include
#13 0xaaaaad2a3fb14 in void std::thread::_Invoker<std::tuple<main::$_0>>::_M_invoke<0ul>(std::_Index_tuple<0ul>) /usr/lib/gcc/aarch64-linux-gnu/12/../../../../
#14 0xaaaaad2a3fae8 in std::thread::_Invoker<std::tuple<main::$_0>>::operator>()() /usr/lib/gcc/aarch64-linux-gnu/12/../../../../../include/c++/12/bits/std_
#15 0xaaaaad2a3fa4c in std::thread::_State_impl<std::thread::_Invoker<std::tuple<main::$_0>>>::_M_run() /usr/lib/gcc/aarch64-linux-gnu/12/../../../../../in
#16 0xfffffa66631f8 (/lib/aarch64-linux-gnu/libstdc++.so.6+0xd31f8) (BuildId: a012b2bb77110e84b266cd7425b50e57427abb02)
#17 0xfffffa635d5c4 (/lib/aarch64-linux-gnu/libc.so.6+0x7d5c4) (BuildId: 317350dd9c806d5dfe9358afcdca6bf56f2b0a54)
#18 0xfffffa63c5d98 (/lib/aarch64-linux-gnu/libc.so.6+0xe5d98) (BuildId: 317350dd9c806d5dfe9358afcdca6bf56f2b0a54)
```