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C++ static code analysis

Unique rules to find Bugs, Vulnerabilities, Security Hotspots, and Code Smells in your C++ code

All 578
rules

Vulnerability 13

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Security 18

Tags

"memset" should not be used to delete sensitive data Vulnerability POSIX functions should not be called with arguments that trigger buffer overflows ■ Vulnerability XML parsers should not be vulnerable to XXE attacks ■ Vulnerability Function-like macros should not be invoked without all of their arguments 📆 Bug The address of an automatic object should not be assigned to another object that may persist after the first object has ceased to exist 📆 Bug Assigning to an optional should directly target the optional 📆 Bug Result of the standard remove algorithms should not be ignored 📆 Bug "std::scoped_lock" should be created with constructor arguments 📆 Bug Objects should not be sliced 📆 Bug Immediately dangling references should not be created

📆 Bug

📆 Bug

📆 Bug

"pthread_mutex_t" should be unlocked in the reverse order they were locked

"pthread_mutex_t" should be properly

"pthread_mutex_t" should not be consecutively locked or unlocked

initialized and destroyed

"for" loop counters should not have Analyze your code essentially floating type Rug Minor 🕝 based-on-misra cert When using a floating-point for loop counter, an accumulation of rounding errors may result in a mismatch between the expected and actual number of iterations. Even if floating-point loop counters appears to behave correctly on one implementation, it may give a different number of iterations on another implementation. **Noncompliant Code Example** for (float counter = 0.0f; counter < 1.0f; counter += 0.001f)</pre> } **Compliant Solution** for (int counter = 0; counter < 1000; ++counter) {</pre> } See • MISRA C:2004, 13.4 - The controlling expression of a for statement shall not contain any objects of floating type. • MISRA C++:2008, 6-5-1 - A for loop shall contain a single loop-counter which shall not have floating type. • MISRA C:2012, 14.1 - A loop counter shall not have essentially floating type. • CERT, FLP30-C. - Do not use floating-point variables as loop counters Available In: sonarlint 😁 | sonarcloud 🙆 | sonarqube | Developer

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Privacy Policy

I
🖟 Bug
"std::move" and "std::forward" should not be confused
∰ Bug
A call to "wait()" on a "std::condition_variable" should have a condition
n Bug
A pointer to a virtual base class shall only be cast to a pointer to a derived class by means of dynamic_cast
ਜ਼ਿ Bug
Functions with "noreturn" attribute should not return
👬 Bug
RAII objects should not be temporary
्रे Bug
"memcmp" should only be called with pointers to trivially copyable types with no padding
🙃 Bug
"memcpy", "memmove", and "memset" should only be called with pointers to trivially copyable types
🙃 Bug
"std::auto_ptr" should not be used
n Bug
Destructors should be "noexcept"
🖟 Bug