



ABAP

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C++ static code analysis

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

⊗ Code O Quick Fix ΑII 578 Security 18 436 6 Vulnerability (13) **R** Bug (111) rules Hotspot Smell

Tags

"memset" should not be used to delete sensitive data 6 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

Objects should not be sliced

Immediately dangling references should not be created

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

"pthread_mutex_t" should be properly

Bug

Bug

Bug

Bug

Assigning to an optional should Analyze your code directly target the optional 🛊 Bug 🏻 Blocker 🕝 Quick Fix 🕝 since-c++17 The class std::optional stores an optional value: a std::optional<T> can either contain a value of type ${\tt T}$ or be empty. One way to access the value of a nonempty optional is the operator*, making an optional look like a pointer. However, the similarity ends there. In particular, the preferred way to assign a value to an optional is to assign it directly (as opposed to assigning it to the dereferenced value or to the result of the function value()). In that case, the assignment works even if the optional does not have a prior value. **Noncompliant Code Example** void g(std::optional<int> &val, bool b) { if (b) { *val = 314; // Noncompliant, will throw if the optional } else { val.value() = 42; // Noncompliant, will throw if the op } **Compliant Solution** void g(std::optional<int> &val, bool b) { if (b) { val = 314; // Compliant } else { val = 42; // Compliant } Available In: sonarlint ⊕ | sonarcloud 🐼 | sonarqube

Search by name.

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initialized and destroyed

in Bug

"pthread_mutex_t" should not be consecutively locked or unlocked twice

in Bug

"std::move" and "std::forward" should not be confused

in Bug

A call to "wait()" on a "std::condition_variable" should have a