



C++

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C++ static code analysis

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

o Security **⊗** Code (436) O Quick 68 Fix ΑII 578 6 Vulnerability (13) **R** Bug (111) rules Hotspot

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

📆 Bug

📆 Bug

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📆 Bug

Objects should not be sliced

Immediately dangling references

"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

should not be created

Methods returns should not be Analyze your code invariant When a method is designed to return an invariant value, it may be poor design, but it shouldn't adversely affect the outcome of your program. However, when it happens on all paths through the logic, it is surely a bug. This rule raises an issue when a method contains several return statements that all return the same value. **Noncompliant Code Example** int foo(int a) { int b = 12;if (a == 1) { return b; return b; // Noncompliant Available In: sonarlint ⊕ | sonarcloud ↔ | sonarqube

Search by name...

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| 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 |