



COBOL

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C++ static code analysis

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

ΑII 578 Security Hotspot **R** Bug (111) 6 Vulnerability 13 rules

O Quick 68 Fix Tags Search by name...

⊗ Code (436)

"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

📆 Bug

📆 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

"offsetof" macro from <stddef.h> Analyze your code should not be used misra-c++2008 misra-c2004 Code Smell suspicious offsetof can lead to undefined behavior when the argument types are incompatible or when bit fields are used. Therefore offsetof should be avoided. **Noncompliant Code Example** #include <stddef.h> struct A int32_t i; **}**; void f1 () offsetof (A, i); // Noncompliant See • MISRA C:2004, 20.6 - The macro offsetof, in library <stddef.h>, shall not be used. • MISRA C++ 2008, 18-2-1 - The macro offsetof, in library <stddef.h>, shall not be Available In: sonarlint 😊 | sonarcloud 🙆 | sonarqube | Developer Edition

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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