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## C++ static code analysis

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

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

Tags

Available In:

"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

String literals with different prefixes should not be Analyze your code concatenated 🛊 Bug 🔷 Major 🕝 based-on-misra cert Concatenation of wide and narrow string literals has not always been supported in C or C++, and even when supported, the meaning may be unclear to the reader. Concatenation of string literals with different encodings is only conditionally supported, and may be removed in a future version of the language. Therefore, only string literals with the same prefix should be concatenated together. **Noncompliant Code Example** wchar\_t n\_array[] = "Hello" L"World"; // Noncompliant // Noncompliant wchar\_t w\_array[] = L"Hello" "World"; **Compliant Solution** char\_t n\_array[] = "Hello" "World"; // Compliant wchar\_t w\_array[] = L"Hello" L"World"; // Compliant See • MISRA C++:2008, 2-13-5 - Narrow and wide string literals shall not be concatenated. • CERT STR10-C. - Do not concatenate different type of string literals

Search by name...

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📆 Bug Objects should not be sliced 📆 Bug Immediately dangling references should not be created 📆 Bug "pthread\_mutex\_t" should be unlocked in the reverse order they were locked 📆 Bug "pthread\_mutex\_t" should be properly initialized and destroyed 📆 Bug "pthread\_mutex\_t" should not be consecutively locked or unlocked

I
🖟 Bug
"std::move" and "std::forward" should not be confused
<b>∰</b> 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
<b>ਜ਼ਿ</b> 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
<b>n</b> Bug
Destructors should be "noexcept"
🖟 Bug