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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) Quick 68 Fix All 578 Security Hotspot 6 Vulnerability (13) **R** Bug (111) rules

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

📆 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

"enum" values should not be used as operands to built-in operators Analyze your code other than [], =, ==, !=, unary &, and the relational operators <, <=, >, >= based-on-misra suspicious Enumerations are used to represent symbolic values, or sometimes bit fields. They are not supposed to be used in arithmetic contexts. Additionally, even though comparing them with integer numbers can make sense (for instance, to test if an enum lies with a certain range), comparing them with floating point numbers does not (and is deprecated since C++20). There are other restrictions related to the use of enums, see for instance {rule:cpp:S2753}. **Noncompliant Code Example** enum { COLOUR_0, COLOUR_1, COLOUR_2, COLOUR_COUNT } colour; if (COLOUR_0 == colour) { ... } if ((COLOUR_0 + COLOUR_1) == colour) { ... } // Noncompli if (colour < COLOUR_COUNT) { ... }</pre> if (colour > 3.14) { \dots } // Noncompliant, comparison with See • MISRA C++:2008, 4-5-2 - Expressions with type enum shall not be used as operands to builtin operators other than the subscript operator [], the assignment operator =, the equality operators == and !=, the unary & operator, and the relational operators <, <=, >, >= 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