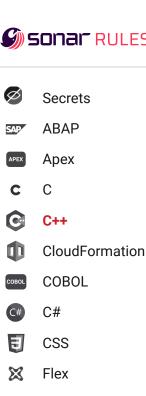
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C++ static code analysis

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

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

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

📆 Bug

👬 Bug

📆 Bug

📆 Bug

Control structures should use curly Analyze your code braces based-on-misra cert pitfall While not technically incorrect, the omission of curly braces can be misleading, and may lead to the introduction of errors during maintenance. **Noncompliant Code Example** if (condition) // Noncompliant executeSomething(); **Compliant Solution** if (condition) { executeSomething(); } See • MISRA C:2004, 14.8 - The statement forming the body of a switch, while, do ... while or for statement shall be a compound statement • MISRA C:2004, 14.9 - An if (expression) construct shall be followed by a compound statement. The else keyword shall be followed by either a compound statement, or another if statement • MISRA C++:2008, 6-3-1 - The statement forming the body of a switch, while, do ... while or for statement shall be a compound statement • MISRA C++:2008, 6-4-1 - An if (condition) construct shall be followed by a compound statement. The else keyword shall be followed by either a compound statement, or another if statement • MISRA C:2012, 15.6 - The body of an iteration-statement or a selectionstatement shall be a compound-statement • CERT, EXP19-C. - Use braces for the body of an if, for, or while statement • CERT, EXP52-J. - Use braces for the body of an if, for, or while statement 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