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

Accessible base classes should not be both "virtual" and non-virtual in Analyze your code the same hierarchy 🛊 Bug 🕚 Minor 🕝 🖣 based-on-misra If a base class is both virtual and non-virtual in a multiple inheritance hierarchy then there will be at least two copies of the base class sub-object in the derived object. This may not be consistent with developer expectations. **Noncompliant Code Example** class A {}; class B1: public virtual A {}; class B2: public virtual A {}; class B3: public A {}; class C: public B1, B2, B3 {}; // Noncompliant, A is both vir **Compliant Solution** class A {}; class B1: public virtual A {}; class B2: public virtual A {}; class B3: public virtual A {}; class C: public B1, B2, B3 {}; // Compliant, A is always virt See • MISRA C++:2008, 10-1-3 - An accessible base class shall not be both virtual and non-virtual in the same hierarchy. Available In: sonarlint 😁 | sonarcloud 🙆 | sonarqube | Developer

Search by name...

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∰ Bug
"std::move" and "std::forward" should not be confused
∰ Bug
A call to "wait()" on a "std::condition_variable" should have a condition
ℛ Bug
A pointer to a virtual base class shall only be cast to a pointer to a derived class by means of dynamic_cast Bug
₩ Duy
Functions with "noreturn" attribute should not return
Rug
RAII objects should not be temporary
₩ 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
ℛ Bug
Destructors should be "noexcept"
∰ Bug