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C++ static code analysis

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

⊗ Code O Quick 68 Fix ΑII 578 Security 18 436 6 Vulnerability (13) **R** Bug (111) rules Hotspot Smell

Tags

char *name2 = "name";

// ...

Available In:

}

"memset" should not be used to delete sensitive data 6 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

Objects should not be sliced

Immediately dangling references should not be created

"pthread_mutex_t" should be unlocked in the reverse order they were locked

"pthread_mutex_t" should be properly

Bug

Bug

Bug

Bug

Stack allocated memory and non-Analyze your code owned memory should not be freed # Bug Blocker symbolic-execution unpredictable Stack allocated memory, like memory allocated with the functions alloca, _alloca, _malloca, __builtin_alloca, is automatically released at the end of the function, and should not be released with free. Explicitly free-ing such memory results in undefined behavior. This rule raises issues when trying to release pointers to memory which is not owned, like stack allocated memory and function pointers. Noncompliant Code Example void fun() { char *name = (char *) alloca(size); // ... free(name); // Noncompliant, memory allocated on the stack char *name2 = "name"; free(name2); // Noncompliant, memory allocated on the stack **Compliant Solution** void fun() { char *name = (char *) alloca(size);

Search by name.

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initialized and destroyed

in Bug

"pthread_mutex_t" should not be consecutively locked or unlocked twice

in Bug

"std::move" and "std::forward" should not be confused

in Bug

A call to "wait()" on a "std::condition_variable" should have a