



VB.NET

VB6

XML



C++ static code analysis

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

All 578 Vulnerability 13	Reg 111 Security 18 Scode 436 Smell Quick 68 Fix
	Tags V Search by name
"memset" should not be used to delete sensitive data Cultural Vulnerability	Freed memory should not be used Analyze your code
POSIX functions should not be called with arguments that trigger buffer overflows Uulnerability	Rug Blocker © we symbolic-execution cert Once a block of memory has been freed, it becomes available for other memory requests. Whether it's re-used immediately, some time later, or not at all is random,
XML parsers should not be vulnerable to XXE attacks	and may vary based on load. Because of that randomness, tests may pass when running locally, but the odds are that such code will fail spectacularly in production by returning strange values, executing unexpected code, or causing a program crash.
❸ Vulnerability	Noncompliant Code Example

// ...

Available In:

See

cp[9] = 0; // Noncompliant

• MITRE, CWE-416 - Use After Free

• CERT, MEM30-C. - Do not access freed memory

• CERT, MEM50-CPP. - Do not access freed memory

• CERT, EXP54-CPP. - Do not access an object outside of its lifetime

Function-like macros should not be char *cp = malloc(sizeof(char)*10); 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

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

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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