



ABAP

_{АРЕХ} Арех

C C

C++

CloudFormation

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тs TypeScript

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C++ static code analysis

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

All 578 Vulnerability 13

R Bug (111)

function

See

Available In:

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Analyze your code

Tags

A function should have a single

point of exit at the end of the

Search by name...

based-on-misra brain-overload

"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

<table-of-contents> 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 initialized and destroyed

📆 Bug

"pthread_mutex_t" should not be consecutively locked or unlocked twice

This is required by IEC 61508, under good programming style.

Noncompliant Code Example

int function1()
{
 return 3;
}

void function2()
{
 function1();
}

int function3(char* ptr) /* Noncompliant; two explicit return
{
 if (ptr == NULL) return -1;
 return 7;
}

void function4(char *ptr) /* Noncompliant; two returns, one e
{
 if (1) return;
 printf("hello world!\n");
}

• MISRA C:2004, 14.7 - A function shall have a single point of exit at the end of the

• MISRA C++:2008, 6-6-5 - A function shall have a single point of exit at the end of

• MISRA C:2012, 15.5 - A function should have a single point of exit at the end

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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