



ABAP

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C++ static code analysis

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

• Security All 578 **6** Vulnerability 13 € **R** Bug (111) Hotspot rules

"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

📆 Bug

Immediately dangling references should not be created

📆 Bug

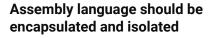
"pthread_mutex_t" should be unlocked in the reverse order they were locked

📆 Bug

"pthread_mutex_t" should be properly initialized and destroyed

📆 Bug

"pthread_mutex_t" should not be consecutively locked or unlocked



Tags

Analyze your code

Quick 68 Fix

misra-c++2008 misra-c2004

Search by name...

⊗ Code (436)

Ensuring that assembly language code is encapsulated and isolated aids portability. Where assembly language instructions are needed, they shall be encapsulated and isolated in either assembler functions or C++ functions.

Noncompliant Code Example

```
void fn ( void )
 DoSomething ( );
  asm ( "NOP" ); // Noncompliant, asm mixed with C/C++ statem
  DoSomething ( );
```

Compliant Solution

```
void Delay ( void )
{
  asm ( "NOP" ); // Compliant, asm not mixed with C/C++ state
void fn ( void )
 DoSomething ();
 Delay ( ); // Compliant, Assembler is encapsulated
  DoSomething ();
}
```

See

- MISRA C 2004, 2.1 Assembly language shall be encapsulated and isolated.
- MISRA C++ 2008, 7-4-3 Assembly language shall be encapsulated and isolated.

Available In:

sonarlint 💮 | sonarcloud 🙆 | sonarqube | Developer

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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 |