

cppcheck

A static analysis tool for C/C++ code.

Instead of syntax errors, it focuses on the types of bugs that compilers normally do not detect.

- Recursively check the current folder, showing progress on the screen and logging error messages to a file:

```
cppcheck . 2> cppcheck.log
```

- Recursively check a given folder, and don't print progress messages:

```
cppcheck --quiet {{path/to/folder}}
```

- Check a given file, specifying which tests to perform (by default only errors are shown):

```
cppcheck --enable=  
{{error|warning|style|performance|portability|information|all}}  
{{path/to/file.cpp}}
```

- List available tests, filtered by a given search pattern:

```
cppcheck --errorlist | grep "{{search pattern}}"
```

- Check a given file, ignoring specific tests:

```
cppcheck --suppress={{test_id1}} --suppress={{test_id2}} {{path/to/file.cpp}}
```

- Check the current folder, providing paths for include files located outside it (e.g. external libraries):

```
cppcheck -I {{include/folder_1}} -I {{include/folder_2}} .
```

- Check a Microsoft Visual Studio project (*.vcxproj) or solution (*.sln):

```
cppcheck --project={{path/to/project.sln}}
```