

Quality

CppUTest

Unit testing and mocking framework for C/C++

- [CppUTest Manual](#)
- [CppUMock Manual](#)
- [Plugin Manual](#)
- [GitHub Repo](#)

Valgrind

Use *Valgrind* to test for memory leaks:¹⁾

```
valgrind --tool=memcheck --leak-check=full --track-origins=yes --show-reachable=yes --show-error-list=yes --error-limit=no <executable>
```

or, if this produces too much warnings about uninitialised values:

```
valgrind --tool=memcheck --leak-check=full --undef-value-errors=no --show-reachable=yes --show-error-list=yes --error-limit=no <executable>
```

CTest

- Kitware, Inc.: [Testing With CTest](#)
- Kitware, Inc.: [Testing With CMake and CTest](#)

Valgrind can also be used with *CTest*.²⁾

```
ctest -V -C Debug -T memcheck
```

when putting this line into `CMakeLists.txt`:

```
set(MEMORYCHECK_SUPPRESSIONS_FILE  
"${CMAKE_SOURCE_DIR}/.valgrind_suppressions" CACHE FILEPATH "" FORCE)  
include(CTest)
```

Misc

- Google: [AddressSanitizer \(ASan\)](#): compile/link with flag `-fsanitize=address`
- Google: [Breakpad](#)
- Gimpel Software: [PC-Lint](#)

¹⁾

See also the command line options page of [Valgrind Memchk](#) for details.

2)

For details see the [CTest MemCheck Step](#) documentation.

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