

VectorCAST Unbuffered Coverage Data Macro

Version 1.0

2024-05-07

Application Note AN-ACT-01-017

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Restrictions	Public Document
Abstract	Macro VCAST_USE_SETUNBUF used to enable unbuffered coverage data output

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1.0 Overview and Use Case

VectorCAST version 2023 SP5 provides a new macro named VCAST_USE_SETUNBUF to direct VectorCAST/C++ or VectorCAST/QA to enable unbuffered coverage data output in situations where line-buffered output doesn't work correctly, particularly on Windows.

Using one of the two existing macros (VCAST_USE_SETVBUF and VCAST_USE_SETLINEBUF) with the new macro, or the new macro alone, makes it possible for coverage data to be saved even if the test harness or instrumented application terminates abnormally.

The macro might be used in a situation where one would suspect the coverage data should be written out but is not as the default is buffered output (save data, write when buffer is full), which might not get flushed when the harness crashes. The unbuffered mode means write data as soon as it is received from the harness. Then one could see how far one got along in execution before the harness crashed. This use case is going to be more prevalent on Windows where I/O might be buffered, depending on the toolchain in use.

2.0 Contacts

For a full list with all Vector locations and addresses worldwide, please visit <http://vector.com/contact/>.