

HCL OneTest Embedded

HCL OneTest Embedded automates the creation and execution of component test harnesses, test scripts, and test stubs with complete runtime analysis from any development environment.



Features

1. Performance and worst-case execution time helps testers identify performance issues in the application and simplifies certification by providing an estimation of the WCET
2. Code coverage analysis helps the developer and tester develop pertinent test cases and achieve certification objectives, including Modifies Condition/Decision Coverage
3. Code review ensures that the code under test is compliant with MISRA standards
4. Target deployment technology develops tests on a single host and validates on multiple targets
5. Qualification kit allows qualification against many industry standards
6. Reporting facilitates the certification process
7. Control and data processing analysis simplifies the certification process by providing the required report for DO178B/C
8. Runtime tracing allows developers to review how a program behaved after the execution has been completed

Benefits & Value



Improve Tester Productivity: Enable a virtual cycle of test generation while executing, reviewing, and testing improvements to rapidly achieve full test coverage with one click.



Develop Pertinent Test Cases: Avoid delivering code that is executed for the first time by the user or the target system running the application.



Identify Errors Early: Pre-empt performance issues and program crashes and adapt to custom memory management methods used in embedded software.



Review Program Behavior: Help developers understand the behavior of the system under test with integrated test results and code coverage data gathered on the fly while the system under test is running.



Make Testing More Reliable: Obtain a deep understanding of the behavior of the system under test with visibility on thread execution and switching.