

# What's New in C++test<sup>™</sup> 7.3

## RELEASE NOTES

### C++test<sup>™</sup> 7.3 introduces the following new features and enhancements:

#### Environments and Compilers

- Support for AIX 5.3/PowerPC platform
  - **IBM XL C/C++ Compiler v8.0**
- Support for Eclipse IDE for C/C++ Developers 3.5 (Eclipse CDT 6.0)
- Support for ARM RealView Development Suite 4.0 (Windows hosted)
  - **ARM C/C++ Compiler, RVCT4.0**
- Support for ARM/Thumb C/C++ Compiler, RVCT2.2 (Windows hosted)
- Support for Keil uVision3 v3.7 (Windows hosted)
  - **ARM/Thumb C/C++ Compiler, RVCT3.1 for uVision**
- Support for IAR Embedded Workbench 5.3 and 5.4 (Windows hosted)
  - **IAR ANSI C/C++ Compiler v5.30 for ARM**
- Support for Texas Instruments Code Composer 3.1 and 3.3 (Windows hosted)
  - **TMS320C6x C/C++ Compiler v6.0 and v5.1**
  - **TMS320C2000 C/C++ Compiler v4.1 (Static Analysis only)**
- Support for QNX Software Development Platform 6.4 (Windows hosted)
  - **QNX GCC 4.2.x**

#### Static Analysis

- BugDetective
  - Incremental analysis mode
  - Improved configuration of resource leak detection (BD-RES-LEAKS rule)
  - Generalized versions of Memory category rules (BD-MEM) - part of Resources category (BD-RES) now
  - Support for customization of Multithreading APIs
  - New rule for prevention of integer overflows/underflows vulnerabilities (BDSECURITY-INTOVERF)

#### Coding Standards

- Parallel analysis mode
- Improved performance of built-in rules
- New built-in test configuration based on "The Power of Ten - Rules for Developing Safety Critical Code"
- Modified built-in rules due to fixes and updates

#### Unit Testing

- Support for Factory Functions
- Parallel analysis mode for tests generation and test-executable preparation

#### Runtime Analysis

- Application monitoring with Runtime Memory Analysis

#### Cross-platform Testing

- Improved test execution flow customization capabilities
- Improved management of C++test Runtime Library

#### Team Working

- Task Assistant for Visual Studio - integration with Parasoft Project Center
- Ability to export global preferences to a configuration file

#### C++test 6.x Migration

- Importing C++test 6.x test suites
  - Improved handling of duplicated test suites
- Importing C++test 6.x stubs
  - Improved handling of duplicated stub definitions
  - Ability to connect stubs to Test Context

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