

What's New in C++test[™] 7.3.2

RELEASE NOTES

C++test 7.3.2, a complete C/C++ developer's quality suite, is now available with a set of new features and improvements. This update supports more environments and compilers: Windows 7, Cygwin 1.7, GNU GCC 4.4, Wind River Workbench 3.1 and 3.2. It also includes improved testing capabilities such as support for Keil ITM-based communication channel (with ULINKPro), new coverage metric (Statement Coverage), new built-in rule configurations (incl. FDA C++, HIS Source Code Metrics, ISO 26262 Recommended Rules) and runtime error detection for global memory pointers.

Environments and Compilers

- Linux, Solaris, Windows + GNU GCC 4.4
- Linux x64
 - GNU GCC 3.3 x64
 - GNU GCC 4.4 x64
- Windows
 - Support for Windows 7 (for more details see "Windows 7 and Vista notes" in "Installation and Licensing" section of C++test documentation)
 - Support for Cygwin 1.7
- eCosCentric
 - eCosCentric GCC 3.4.x (static analysis only) ***
- Keil
 - Support for ITM-based communication channel (with ULINKPro)
- Renesas
 - SuperH RISC engine C/C++ Compiler V9.03 (static analysis only) *
 - Project importer for High-performance Embedded Workshop 4 *
- Texas Instruments
 - TMS320C2x/C2xx/C5x Version 7.0 (static analysis only) **
 - TMS320C6x C Compiler v. 4.0 (static analysis only) **
 - TMS320C6x C Compiler v. 4.3 (static analysis only) **
 - TMS320C6x C Compiler v. 5.1 (static analysis only) **
 - TMS320C6x C/C++ Compiler v6.1 ***
- Wind River
 - Workbench 3.1, 3.2 IDE *
 - Wind River Diab 5.7 *
 - Wind River Diab 5.8 *
 - Wind River GCC 2.9 **

(*) Windows hosted (**) Solaris hosted (***) Linux hosted

Static Analysis

- New built-in configurations
 - FDA C++ Phase 1-3
 - HIS Source Code Metrics

- ISO 26262 Recommended Rules
- SAMATE Annex A Source Code Weaknesses
- New and modified built-in rules due to fixes and updates

Unit Testing

- Added safe stubs for CreateProcess() functions family (Windows)
- Added automatic validation of test cases throwing exceptions / resulting in errors

Coverage Analysis

- Support for Statement Coverage
- Improvements to MCDC metrics

Runtime Analysis

- Runtime Error Detection support for global arrays
- New Runtime Error Detection rules
- RA-MEM-FREEGLOB Do not use free on a global memory pointer
- RA-MEM-RAGLOB Do not use realloc on a global memory pointer

Command Line Interface:

- Option for importing existing project to a new workspace

Team Working

- Support for StarTeam 2005, 2008, 2009 (Visual Studio 2005 and 2008 plugins)

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