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Release Notes

Release v5.1.15 (64 items)

C++

TES-5565

Fixed generating test driver for a method with parameter that is a reference to it's own class.

C++

TES-5632

Fixed finding the test object during coverage instrumentation if methods which the same name are declared as deleted.

CTE

TES-5302

Increased time out to generate CTE for test report.

Enhancement

Command Line (tessycmd)

TES-5667

When tessyd was started with '--skip-module-analyze' option, the module analysis now will not be skipped if the IDB Version is not current.

Enhancement

Compiler/Target/Microcontroller

TES-5442

Fixed generating test driver for anonymous unions of IAR compilers.

Compiler/Target/Microcontroller

TES-5476

Add new Ada Core GNAT Pro C for ARM Compiler in combination with Lauterbach TRACE32 and in combination with AdaCore QEMU.

New Feature

Compiler/Target/Microcontroller

TES-5484

New TI C29 compiler with TI Code Composer Studio.

New Feature

Release v5.1.15 (64 items)**Compiler/Target/Microcontroller*****New Feature***

TES-5540

New combination for native ARM support on x86 Ubuntu.

Compiler/Target/Microcontroller

TES-5554

Fixed analyzing problem of clang environment.

Compiler/Target/Microcontroller***New Feature***

TES-5558

Added support for target communication via Semihost for IAR C-SPY and cpsybat.

Compiler/Target/Microcontroller***Enhancement***

TES-5564

Updated control_macro.tpl file for the C-Spy adaption.

Compiler/Target/Microcontroller***New Feature***

TES-5567

New adaption for SEGGER CC for ARM compiler with SEGGER J-Link GDB server.

Compiler/Target/Microcontroller

TES-5585

Fixed double entry in typetable for IAR RL78.

Compiler/Target/Microcontroller***Enhancement***

TES-5587

Updated configuration for Microchip XC8-CC version 3.10.

Compiler/Target/Microcontroller***Enhancement***

TES-5597

Fixed Cosmic STM8 ST Microelectronics STVD.

Compiler/Target/Microcontroller***Enhancement***

TES-5607

Updated TKS files for AD CrossCore Embedded Studio SHARC.

Compiler/Target/Microcontroller***Enhancement***

TES-5611

Updated Microchip XC32 configuration.

Compiler/Target/Microcontroller***Enhancement***

TES-5628

Fixed removing temporary files of TRACE32 environment in case of error.

Compiler/Target/Microcontroller***Enhancement***

TES-5669

Updated TKS template file for IAR Arm compiler.

Release v5.1.15 (64 items)

Compiler/Target/Microcontroller

TES-5687

Fixed IDB Makefile for TASKING TriCore compiler regarding C++ source files.

Compiler/Target/Microcontroller

Enhancement

TES-5691

Updated tks files for Microchip XC32.

Compiler/Target/Microcontroller

Enhancement

TES-5692

Improved path handling for Microchip XC32 compiler command line.

Compiler/Target/Microcontroller

New Feature

TES-5694

New target support for the Arm Fixed Virtual Platform.

Compiler/Target/Microcontroller

Enhancement

TES-5695

Introducing Slave Target Binary and Slave Debug Target Binary. See application note 043 for more information.

Compiler/Target/Microcontroller

Enhancement

TES-5696

Updated TKS files and Makefile templates for TASKING VX TriCore.

Compiler/Target/Microcontroller

Enhancement

TES-5699

Improved Michrochip XC GCC IDB Makefile.

Compiler/Target/Microcontroller

New Feature

TES-5705

Added support for GNAT Pro QEMU emulator using Semihosting.

Compiler/Target/Microcontroller

TES-5708

Fixed TKS file for SEGGER GNU Arm compiler.

Compiler/Target/Microcontroller

Enhancement

TES-5713

Fixed breakpoint cleanup in generated tassy_cspy.mac file.

Component Test

TES-5549

Definitions of advanced stub variables and defines for static variables where not generated to test driver sources when scenarios had no test data.

Coverage Measurement

TES-5689

Function calls within conditions were not considered for CPC if another coverage measurement (C0, C1, DC, MC/DC, MCC) was applied in combination with CPC.

Release v5.1.15 (64 items)**Defines***Enhancement*

TES-5693

Improved performance of defines parser.

Driver

TES-5568

Fixed missing whitespace between memory modifier and type name in cast for structures send/receive functions.

Driver

TES-5578

Fixed conflicts with user defines to struct members and test driver code.

Driver

TES-5608

Fixed possible conflict of generated local variable and parameter name in advanced stub code.

Driver

TES-5624

Fixed invalid characters in test drivers send/receive function names for struct array members in a class derived from a template class.

Driver

TES-5640

Memory modifier was not generated in cast to static enum variable.

Driver

TES-5671

Fixed erroneous cast for test objects const class reference parameter.

Environment Editor (TEE)*Enhancement*

TES-5399

Updated TASKING script debugger adaption.

Environment Editor (TEE)

TES-5545

Setting the "Target Install Path" for Lauterbach TRACE32 within the test environment editor (TEE) could cause exception when loading/reloading the TEE model (either when switching to the TEE perspective or if the TEE perspective is already open when starting TESSY).

Environment Editor (TEE)

TES-5561

Fixed showing wrong value while editing an integer attribute having hexadecimal format.

Environment Editor (TEE)*Enhancement*

TES-5645

Added default value of "__mingw*" for "Call Pair Coverage Exclude List".

Release v5.1.15 (64 items)

Fault Injection

Enhancement

TES-5697

Fixed invalid generated code if a fault injection is present inside an cascaded if-else statement.

Instrumenter

TES-5556

Stub code for overloaded operator++ and operator-- was not generated.

Instrumenter

TES-5612

Code in stl header files was erroneously changed by the instrumenter.

Instrumenter

TES-5702

Fixed instrumenting source with curly brace for C++ struct default parameter values.

Interface Database (IDB)

TES-5616

'Define Variable' was set for an external variable when updating the Interface Database if it was not set.

Parser

TES-5546

Parser wrote an erroneous Interface Database if an inner structure has the same tagname as an outer structures typedef name.

Parser

TES-5553

Corrected determining address space modifiers of variables and functions.

Parser

TES-5560

Fixed parser error if the name of an anonymous union component is used as an component name in a user defined struct or union.

Parser

TES-5609

Fixed possible target pointer lookup when using a typedef definition for a struct without a tag name but recursion pointer.

Preprocessing

TES-5394

Fixed type table file for Microchip XC8 compiler.

Report

TES-5680

Truncate test object name if report file name is too long.

Release v5.1.15 (64 items)

Report

Enhancement

TES-5701

Fixed handling of C++ destructors within the test summary report: Destructors will now be skipped for the statistics and within the test object table.

Save/Restore Database (TMB Files)

TES-5570

Truncate test object name if script file name is too long and include UUID in script file names for C++ test objects and truncated script file names.

TESSY (General)

TES-5566

An issue in which tessyenv always exited with a value of -1, even when no error occurred, has been fixed.

TESSY (General)

TES-5579

TESSY uses x-terminal-emulator in "Start Shell" which start the users favorite terminal and does not add unwanted packages during installation.

Test Cockpit

TES-5559

Fixed possible wrong Hyper Coverage if variables with an initialization list are present.

Test Cockpit

TES-5631

Fixed error while updating the test summary if a base class declaration spanned multiple lines.

Test Cockpit

TES-5688

Fixed exception in Test Cockpit that occurred when Call Pair Coverage was enabled and the function call was nested within a conditional statement.

Test Data Editor (TDE)

TES-5698

Fix "Show Array Elements" for dynamic arrays.

Test Database (TDB)

Enhancement

TES-5617

Validate pointer targets to avoid using expressions (e.g. address + 0x0A).

Test Evaluation

TES-3819

Functions called in user code epilog where listed in test objects call trace.

Usercode Editor (UCE)

TES-5666

Use the key binding specified for the "Content Assist" command in the preferences to open content proposals.

Release v5.1.14 (57 items)

C++

TES-5396

Fixed "Testobject 'function_name' not found" error if the test object is used as an extern "C" friend function of a class.

C++

TES-5420

Unused functions to send/receive test data for IRRELEVANT class pointer targets were generated to test driver files.

C++

TES-5427

When an overloaded function with a const parameter was tested the overloaded function with the non-const parameter of the same type was called instead.

C++

TES-5450

Fixed generating send/receive functions for struct type defined inside a class.

CTE

TES-5328

Fixed evaluating expressions from node names when using defines with a negative value.

CTE

TES-5462

The dropins extension "Migrate all CTE" files triggered an exception.

CTE

TES-5464

CTE-650 - Fixed CTE produces false positive validation issues like "The required feature 'description' of '...' must be set".

Command Line (tessycmd)

TES-5365

Ignore HTTP_PROXY and HTTPS_PROXY environment variables for headless communication.

Compiler/Target/Microcontroller

New Feature

TES-4626

New HIGHTEC LLVM AURIX TC4x compiler with Lauterbach TRACE32.
New HIGHTEC LLVM AURIX TC4x compiler with PLS UDE.

Compiler/Target/Microcontroller

New Feature

TES-5304

Add new compiler IAR BXARM in combinations with CspyBat and LAUTERBACH TRACE32.

Compiler/Target/Microcontroller

New Feature

TES-5330

Add support for TASKING TriCore C++ with Lauterbach TRACE32.
Add support for TASKING TriCore C++ with TASKING VX script debugger.

Release v5.1.14 (57 items)**Compiler/Target/Microcontroller***New Feature*

TES-5350

New combination for SEGGER ARM compiler with SEGGER J-Link.

Compiler/Target/Microcontroller*New Feature*

TES-5359

Improved include-dialog handling. Non-existent paths can be optionally removed from the include-path-list.

Compiler/Target/Microcontroller

TES-5376

Updated configuration files for Microchip XC8-CC compiler.

Compiler/Target/Microcontroller

TES-5381

Added missing type long double to typetable for IAR Risc V.

Compiler/Target/Microcontroller

TES-5401

Fix problem concerning TEE resource list attributes.

Compiler/Target/Microcontroller

TES-5402

Fixed deleting temporary files using TRACE32 as debugger.

Compiler/Target/Microcontroller

TES-5405

Fixed KungFu32 configuration.

Compiler/Target/Microcontroller

TES-5407

Adapted header in TESSY's installation directory to support the Cosmic HC11 EPAD compiler.

Compiler/Target/Microcontroller

TES-5423

Improved iSYSTEM winIDEA launch.

Compiler/Target/Microcontroller*Enhancement*

TES-5437

Added type _Bool to IAR RL78 type table.

Compiler/Target/Microcontroller*New Feature*

TES-5439

New debugger adaption added for TASKING winIDEA.

Compiler/Target/Microcontroller*Enhancement*

TES-5440

Add support for new Melexis GCC compiler.

Release v5.1.14 (57 items)

Compiler/Target/Microcontroller

TES-5457

Fixed bug concerning GCC x86 while using -std=c11.

Compiler/Target/Microcontroller

New Feature

TES-5458

Added new compiler GNU Tools for AArch64 with Lauterbach TRACE32.

Compiler/Target/Microcontroller

TES-5515

Fixed pre-include header file for TASKING C166.

Component Test

TES-4909

Fixed parsing test report for Component Test when a local static variable is located in an unused static function.

Component Test

TES-5144

After moving or copying a called function in the time line its comparison was missing in a generated script file.

Coverage Measurement

TES-5380

Fixed the FNH entry within the LCOV file being generated together with the test summary report. The FNH entry now considers all functions with any coverage instead of only fully covered functions.

Coverage Measurement

TES-5388

Functions from the 'Header File Exclude List' are only excluded from coverage measurements if the attribute 'Header File Exclude List Coverage' is set to false.

Coverage Measurement

TES-5438

Fixed possible wrong coverage displayed in Overview perspective if an expression could not be parsed.

Coverage Measurement

Enhancement

TES-5466

Added new attribute "Call Pair Coverage Exclude List".

Coverage Reviews

New Feature

TES-5410

Provide a new menu entry to easily create a coverage review for a whole function listed within the test cockpit view that shall not be tested (i.e. excluded from the test).

Coverage Viewer (CV)

TES-5503

Selecting CPC call locations within the "Call Pair Coverage" view failed to display the appropriate source code/file in case of modules having more than one source file assigned.

Release v5.1.14 (57 items)

Driver

Enhancement

TES-5039

Typedef for scalar types are generated in declarations instead of the underlying type.

Driver

TES-5374

Fixed passing define with double parentheses on command line, e.g.

PACKED=__attribute__((packed))

(linux only)

Driver

TES-5391

The test object is not instrumented for call trace anymore for a test run without instrumentation.

Driver

TES-5408

Fixed issues with missing memory modifiers in generated source file

- in typedef of function pointer with memory modifier.

- in cast to call send/recv functions of structs inside a struct variable with memory modifier.

- in parameter of send/recv functions of untyped struct inside a struct variable with memory modifier.

Driver

TES-5409

In modules with more than one source file the functions to send/receive test data for structures were possibly generated to source files where the structure was not declared.

Driver

TES-5481

Fixed erroneous memory modifier in generated function for an OUT pointer in a specific memory area.

Import/Export

TES-5378

New stub settings were not saved after import if "Update passing directions" option was disabled.

Import/Export

Enhancement

TES-5426

Importing TESSY module backup files (.tmb) from newer versions is rejected now.

Instrumenter

TES-5367

Erroneous Call Pair Coverage (CPC) instrumentation if the source code contains variables with prefix 'TESSY_'.

Instrumenter

TES-5384

Fixed `Testobject not found` error for test objects returning a pointer to function or array.

Instrumenter

TES-5473

Fixed executing tests when the attribute 'Enable Coverage Data Compression' is true.

Release v5.1.14 (57 items)

Interface Assigner (IDA)

TES-5447

Fixed wrong behaviour when a test object was assigned for reuse and afterwards a test object from a different module was assigned to it.

Interface Database (IDB)

TES-5446

Fixed possible automatic reuse of a test object when a manual reuse is required.

Parser

TES-5366

Enums declared inside a function where missing in the functions interface.

Parser

TES-5422

Functions in files on the Header File Exclude List appeared in the test object list if the header file was located in the project root.

Report

TES-5356

Fixed an issue where Non-ascii characters in CTE documents caused an error in report generation.

Report

TES-5477

Fixed using obsolete test results for test details report after having done changes to a test object.

Report

TES-5525

Fixed missing unreached line entries for call pair coverage (CPC) within the source details section of the test summary report.

Script Editor

TES-5431

Fixed possible script error in C++ call trace.

Test Cockpit

TES-5505

Added new feature to disable the code access (CA) analysis for a project. This is useful when testing only one variant of a source code. All ignored (i.e. not accessed) source code lines will automatically be listed as a generated coverage review within the test summary report for auditing purposes. The code access analysis can be enabled/disabled within the "Test Cockpit Settings" of the preferences.

New Feature

Test Cockpit

TES-5513

Fixed Hyper Coverage (HC) calculation when applying only statement (C0) coverage: The HC calculation did not reach 100% if not existing "else" statements or not existing "switch" default cases were not executed by any of the available test cases.

Release v5.1.14 (57 items)

Test Data Editor (TDE)

TES-5392

Consider the enum sign when selecting negative enum values.

Variant Management

TES-5411

Fixed erroneous struct member pass direction after synchronizing when the struct member was changed to IRRELEVANT and the struct is unused in the variants parent test object.

Release v5.1.13 (30 items)

C++

TES-5291

Fixed `undefined reference` to methods that are stubbed but contained inside header files that are excluded via attribute 'Header File Exclude/Include List'.

CDT Perspective

TES-5247

CDT debugger could not be used if the current working directory was not the TESSY install path.

CTE

TES-5293

CTE-647 Fix renumbering of test cases does not work when test group or test sequence is selected.

CTE-646 Prevent hidden marks from being accidentally toggled.

CTE-649 Prevent paste as child operation for refinements. It is considered bad user experience to change a view not currently open in this situation.

Compiler/Target/Microcontroller

TES-5194

New combination for HighTec ARM compiler with PLS UDE debugger.

New Feature

Compiler/Target/Microcontroller

TES-5232

New configuration for ARM Development Studio

New Feature

Compiler/Target/Microcontroller

TES-5265

New combination for GNU RISC-V compiler with GNU RISC-V GDB debugger.

New Feature

Compiler/Target/Microcontroller

TES-5266

Added new compiler IAR ARM AARCH64 in conjunction with C-Spy.

New Feature

Compiler/Target/Microcontroller

TES-5285

Fixed common IDB Makefile concerning unusual header lines in preprocessed source files.

Release v5.1.13 (30 items)**Compiler/Target/Microcontroller****Enhancement**

TES-5290

Added TEE attribute "TKS Preinclude File" as default for all IAR compilers.

Compiler/Target/Microcontroller

TES-5294

Fixed missing "Project GUI Information" when using winIDEA as target debugger.

Compiler/Target/Microcontroller**Enhancement**

TES-5299

Introduced more optional timing measurements for module analysis by setting the attribute 'Enable Analyze Time Measurement' to true.

Compiler/Target/Microcontroller

TES-5305

Fixed GCC 64 environment.

Compiler/Target/Microcontroller

TES-5321

Fixed race condition in IDB Makefile concerning the options.txt file.

Compiler/Target/Microcontroller

TES-5322

Fixed IDB Makefile for the Wind River compiler.

Compiler/Target/Microcontroller

TES-5324

Fixed compiler dialect argument handling for some TASKING TriCore Makefile templates.

Compiler/Target/Microcontroller

TES-5332

Fixed Wind River IDB Makefile.

Compiler/Target/Microcontroller**New Feature**

TES-5343

Added BAT script which may be used to set attribute 'Execute Testcases Separately' for all test objects to false.

Compiler/Target/Microcontroller**Enhancement**

TES-5347

Updated UDE adaption.

Coverage Viewer (CV)

TES-5338

Fixed that excluded functions are displayed in the functions list.

Driver**Enhancement**

TES-5139

Reduced high consumption of memory by interface database in test driver generator.

Release v5.1.13 (30 items)

Fault Injection

TES-5346

Fixed fault injection not working in a component test if a none empty attribute 'Instrumentation Exclude List' is present.

Interface Assigner (IDA)

TES-5348

Fixed assigning of enum constants if an enums type name was changed.

Interface Database (IDB)

TES-5288

Fixed possible failure to rename large Interface Database folders when an antivirus software is running.

Parser

TES-5329

Fixed parser option for Melexis compiler.

Report

TES-5307

Fixed erroneously listed missing coverage lines within the source file details of the test summary report if do/while(0) statements were present in the code when measuring DC, MC/DC or MCC coverage.

Test Cockpit

TES-5331

Fixed error "Failed to update test object hashes for module ..." if a local tag type definition is present inside a test object.

Test Cockpit

TES-5342

If a ternary expression was used in the condition of a 'for' loop, the position of this condition was erroneous.

Test Cockpit

TES-5344

Fixed potential problem while updating test object hashes for modules which were tested using the Green Hills compiler: In some situations, the compiler emits "#line 123" entries into the preprocessed source code of header files which were handled erroneously.

Test Cockpit

TES-5345

Fixed execution of test objects that should be excluded if the option 'Skip test objects with valid results' is enabled. Test objects being restored from older TMB files and being auto-reused when analyzing the module were executed despite their code and tests were not changed.

Test Data Editor (TDE)

TES-5352

Additional TDE test data was not saved for CTE test cases.

Release v5.1.12 (47 items)

C++

TES-5224

Fixed parsing source file where builtin type `char8_t` is used.

C++

TES-5225

Fixed instrumenting struct/class declared on one line.

C++

TES-5241

Implemented handling of rvalue reference parameter.

Enhancement

C++

TES-5250

Fixed erroneous namespace when a type from a different namespace is used in a typedef.

CTE

TES-5213

Fixed TESSY to save CTE test cases in every situation test data of nodes changes.

CTE

TES-5279

CTE-642 Fixed insertion of dependencies while activated dependency filter.

CTE-643 Prevent deadlock in CTE image generation on Linux systems

CTE-645 Fix prevent exception when editing meta informations in CTE documents of variants.

Enhancement

CTE

TES-5292

Remove cached test data after using "Remove Testspecification".

Command Line (tessycmd)

TES-5220

Automatically enable source root when the parameter `--source-root` is set in TESSYD

Compiler/Target/Microcontroller

TES-5166

New combination for IAR ARM compiler with PLS UDE debugger.

New Feature

Compiler/Target/Microcontroller

TES-5188

New combination for TI ARM CLANG compiler with Lauterbach TRACE32 debugger.

New Feature

Compiler/Target/Microcontroller

TES-5207

Implemented TEE attribute "Enable PRACTICE Script Debugging" for TRACE32 combinations which allows to enable the debugging of the PRACTICE script.

Enhancement

Release v5.1.12 (47 items)

Compiler/Target/Microcontroller

TES-5211

Fixed Preprocessor Call attribute for GNU Tools for ARM with STM32CubeIDE.

Compiler/Target/Microcontroller

Enhancement

TES-5218

Added compiler option for assembler-list generation for CS+ Makefile templates, which is needed by the CS+ debugger to relate the source line numbers during interactive debugging.

Compiler/Target/Microcontroller

New Feature

TES-5227

New combination for HighTec ARM LLVM compiler with iSYSTEM winIDEA debugger.

Compiler/Target/Microcontroller

Enhancement

TES-5256

Added feature to enable logging for the UVSC interface of Keil uVision by TEE attribute "Debugger Log File".

Coverage Viewer (CV)

TES-5231

Fixed sporadic 'Unhandled event loop exception' when switching to CV perspective.

Coverage Viewer (CV)

TES-5234

Fixed possibly wrongly displayed coverage in flow chart view, test cockpit view and test summary report: After execution of modules not being opened before (e.g. when using a batch operation or executing a whole module currently closed in the GUI), opening and selecting test objects of such modules could cause a wrong coverage being displayed within the flow chart when switching to the coverage viewer (CV) perspective.

Also the summarized coverage being displayed within the test cockpit view and printed to the test summary report could be incorrect.

Coverage Viewer (CV)

TES-5257

Fixed sensitivity of previous/next buttons for branches and conditions. Also do/while(0) branches/conditions will not be considered any more when using the previous/next buttons (because they are considered as irrelevant for coverage).

Coverage Viewer (CV)

Enhancement

TES-5278

Allow creating coverage reviews within the source code view directly while showing the coverage for a test object. This allows to select an unreachable branch (e.g. an unreachable default branch) within the control flow view and provides the menu entry for creating a coverage review for the respective code lines.

Driver

Enhancement

TES-5259

Generate stub code for called external functions to the same source file containing the test object.

Fault Injection

Enhancement

TES-3663

Fault injection is now possible before the while decision in do/while loops.

Release v5.1.12 (47 items)

Fault Injection

TES-5206

Fixed fault injection for template functions.

Import/Export

TES-3656

Fixed importing advanced stub variables of struct/union type containing arrays as components.

Import/Export

TES-5131

Added warning when importing test data with invalid array indices.

Enhancement

Import/Export

TES-5200

Fixed conversion warning when importing large integer numbers from Excel sheets.

Enhancement

Import/Export

TES-5233

Export data for a function return in a column named 'return' instead of 'test_object_name()'.
So test data can be imported to a test object with a different name without editing the data file.

Enhancement

Import/Export

TES-5238

Fixed import of constructor data to first test case when only the default constructor is used.

Instrumenter

TES-5226

Fixed possible syntax error while parsing C++ Standard Template Library classes.

Instrumenter

TES-5251

Fixed instrumentation error when a shift operator is used inside a template parameter list.

Instrumenter

TES-5253

Erroneous code was generated when testing with Call Pair Coverage and the C Keyword `_Generic` is present.

Interface Assigner (IDA)

TES-4767

Fixed behaviour and improved synchronisation of changes when switching between multiple module or test objects views.

Interface Assigner (IDA)

TES-5210

Test data of advanced stub parameter with changed name in variant module got lost during synchronization when the use of IDA is necessary to complete the synchronization.

Release v5.1.12 (47 items)

Interface Editor (TIE)

New Feature

TES-5235

Provide typedefs as types for the "New Artificial Variable" dialog within the test interface editor (TIE).

Interface Editor (TIE)

Enhancement

TES-5255

Changed default passing direction for pointer type parameters of advanced stubs.

Parser

TES-5221

Fixed error if no declaration is present when calculating a variable declaration scope.

Parser

TES-5223

Fixed calculating float constants.

Parser

TES-5281

Array size was calculated incorrect if a a struct type variable is used in sizeof expression.

Report

Enhancement

TES-5254

Provide junit XSLT transformation file for the test summary report.

Save/Restore Database (TMB Files)

TES-5229

Fixed creating backup of not analyzed module.

Script Editor

TES-4359

Support anonymous unions in scripts.

Script Editor

TES-5270

Allow links to previous requirement versions in scripts.

TESSY (General)

TES-5248

Fixed memory leak in task initiator (ti).
(Linux only)

TESSY (General)

Enhancement

TES-5264

Handle source files located on Windows hidden shares.

TESSY (General)

Enhancement

TES-5274

Always show line numbers in editors.

Release v5.1.12 (47 items)

TESSY (General)

TES-5286

Provide an icon for AUTOSAR items

Test Cockpit

TES-5216

Fixed refreshing the Test Cockpit View too often, added preference option to disable automatically refreshing the Test Cockpit View, and allow the Test Cockpit View to be closed.

Test Cockpit

TES-5258

Fixed hyper coverage (HC) calculation for do/while(0) statements when measuring DC, MC/DC or MCC coverage. Even though all test objects yield 100% coverage, the HC value for the respective source file was calculated as being lower than 100%.

Release v5.1.11 (40 items)

Batch Operation

TES-5157

Fixed generating test details reports in batch operations being started from the "Define Batch Operation" dialog. The reports were missing the actual values if the respective test objects have already been executed before.

C++

TES-5153

Fixed 'Testobject not found' error when testing a class constructor with instrumentation.

C++

TES-5176

The source instrumenter was not finding the test object if a struct template with initialization is used and the test object is inside a namespace.

CTE

TES-5145

CTE-639 - fix NPE which prevents copying empty tests

Enhancement

CTE

TES-5149

Fix an update problem of test interface in CTE perspective when discard is used while switching from CTE perspective to other perspectives.

Enhancement

CTE

TES-5173

Fix error when saving a CTE document which contains attached nodes without a parent node.

CTE

TES-5174

Fix TESSY will not update CTE documents in scenario tests.

Enhancement

Release v5.1.11 (40 items)

CTE

TES-5182

Fixed an issue where CTE nodes linked to stubbed function lost their links. Add a menu action to Attach stubbed functions to CTE Nodes manually.

Compiler/Target/Microcontroller

New Feature

TES-5143

New adaption for HighTec ARM CLANG compiler with Lauterbach TRACE32 debugger.

Compiler/Target/Microcontroller

TES-5148

Fixed Linux-Linaro configuration.

Compiler/Target/Microcontroller

TES-5161

Fixed UDE/TASKING XV XC166 configuration.

Compiler/Target/Microcontroller

TES-5165

Added missing `__int24` types to TKS template file for Microchip XC8 compiler.

Compiler/Target/Microcontroller

TES-5190

Fixed CLANG / Eclipse CDT configuration.

Component Test

TES-5147

Fixed missing cast at enum parameter and return of called functions in C++ scenarios.

Component Test

TES-5175

Fixed generated calls to C++ handler methods.

Coverage Measurement

Enhancement

TES-5050

Fixed error when an if condition contains a function call using a conditional expression as parameter.

Driver

Enhancement

TES-5146

Replaced modulo operator with own remainder calculation in generated scenario code.

Driver

TES-5201

Members of dynamic class pointer targets with passing IN were possibly not set if an IRRELEVANT pointer target of the same class type was present in the interface.

Driver

TES-5230

Fixed declaration of classes from `std::filesystem`.

Release v5.1.11 (40 items)

Import/Export

TES-5124

Fixed import problems with Excel files containing cell comments.

Instrumenter

TES-5168

Failed to stub methods in attributed classes.

Instrumenter

TES-5204

The source instrumenter was not finding the test object if a `__attribute((...))` is present in front of the function name.

Interface Database (IDB)

TES-5186

Fixed error opening Interface Database when a base class appears after a class derived from it.

Parser

TES-5141

Fixed TASKING VX `__sfrbit32` compiler problem.

Enhancement

Parser

TES-5199

Fixed loss of test data if a struct of a pointer parameter is a forward declaration and defined in a later source in the modules source file list.

Report

TES-5183

Added the test execution option "Apply coverage to test result" into the test overview report XML file to update the respective headlines and report comment text according to this option.

Enhancement

Report

TES-5184

Added unreached line information for CA/HC measurements to the test summary report XML file for usage with third party tools.

Enhancement

TESSY (General)

TES-5030

Enhanced CTC++ integration: Special instrumentation will be applied in CTC++ mode and all necessary CTC++ result files will be produced when generating the test overview report.

Enhancement

TESSY (General)

TES-5120

Implemented special exit code (2) for `tessyd` meaning no more licenses.

Enhancement

TESSY (General)

TES-5152

Module was opening after change of Environment and failing analyze.

Release v5.1.11 (40 items)

TESSY (General)

TES-5203

Fixed --source-root command line parameter for tessyd in linux version.

Test Cockpit

TES-5189

Fixed potential problems with test objects beginning and ending on the same source code line.

Test Cockpit

TES-5191

Longer names within the source root path could cause problems when importing test summary data because the source file paths were written as short paths.

Test Data Editor (TDE)

TES-5160

Fixed wrong result for floating point values in unary operations.

Test Evaluation

TES-5136

Fix for potential multi-threading related exceptions.

User Manual

TES-4716

Updated the user manual to describe the aspects "Select Interface in Test Data view" and "Cycle through Test Data in Test Data View".

User Manual

TES-5007

Extend the user manual with documentation for "Attach Pointer Target".

Enhancement

User Manual

TES-5171

User manual updated with general information about variable names and naming exception for nodes attached to array elements.

Enhancement

Variant Management

TES-5192

Avoid exception being logged when a parent module is not available when restoring a variant module.

Enhancement

Variant Management

TES-5196

Test data of advanced stub parameter with changed name in variant module got lost during synchronization.

Release v5.1.10 (67 items)

Batch Operation

TES-5081

FIX tessyenv shell reflects the error code of the executed script or command.

Release v5.1.10 (67 items)

C++

TES-4597

Fixed error in generated stub code, if the default constructor was declared with =deleted or =default.

C++

TES-5002

Fixed using module stub code for not called external methods.

C++

TES-5130

Fixed parser error when a struct type has only a static member of a struct declared inside this struct.

CDT Perspective

TES-5016

Set break point for C++ test objects to TESSY_TestobjectCall since in some cases methods could not be found by the debugger due to name mangling.

CTE

TES-4993

Fixed wrong max value for INT64.

CTE

TES-5028

Changed behavior when CTE enforces variable names. The CTE now only enforces variable names in the last line of attached nodes, all other lines are considered user-provided description. An exception is when the user has provided a global description via the interface dictionary for the given interface element.

Enhancement

CTE

TES-5042

Changed behavior when CTE generates variable names for array elements. CTE doesn't generate the array name as array_name[22] in the node name anymore, but only generates indexes, e.g. [22]. This eliminates the need for CTE to update node names attached to array elements, and avoids interfering with indexes.

Enhancement

CTE

TES-5049

Fixed a memory leak in TESSY scripts for test objects with CTE.

CTE

TES-5102

CTE-638: Fixed copied marks don't have marks. Remark only test cases in same diagram keep marks.

Compiler/Target/Microcontroller

TES-5040

Updated the Melexis Makefiles.

Enhancement

Compiler/Target/Microcontroller

TES-5051

Fix Compiler Call value for the GNU Tools for ARM with STM32CubeIDE combination.

Release v5.1.10 (67 items)

Compiler/Target/Microcontroller

TES-5060

Added missing Makefile Variable flag for Freescale MPC.

Compiler/Target/Microcontroller

Enhancement

TES-5061

Updated the TKS files files for IAR.

Compiler/Target/Microcontroller

New Feature

TES-5063

Add new application note for the STM32CubeIDE adaption.

Compiler/Target/Microcontroller

Enhancement

TES-5065

Added preload and postload wait time feature to PLS UDE environments.

Compiler/Target/Microcontroller

Enhancement

TES-5071

Updated IDB Makefile for Wind River regarding the dplus compiler.

Compiler/Target/Microcontroller

Enhancement

TES-5092

Updated TKS files for IAR compilers.

Compiler/Target/Microcontroller

Enhancement

TES-5093

Switched to individual defines file and include path file for each source file for those compilers that support this feature.

Compiler/Target/Microcontroller

Enhancement

TES-5112

Added C++ support for Analog Devices Blackfin compiler with VisualDSP++.

Compiler/Target/Microcontroller

Enhancement

TES-5116

Fixed preprocessor call for IAR RISC-V.

Component Test

TES-5094

Fixed evaluating evaluation macros in stub functions in the init time step.

Component Test

TES-5134

Reduced time to save modified scenarios of component tests.

Coverage Viewer (CV)

TES-4989

Fixed potential exceptions when pressing the "Next/Previous Unreached Code" button of the source code view within the CV perspective.

Release v5.1.10 (67 items)

Driver

TES-5033

Fixed possible missing memory modifier in generated cast.

Driver

TES-5073

Fixed accessing private static class members.

Driver

TES-5107

Test was failing or aborting when dynamic OUT objects are used to check content of pointers set to static variables.

Driver

TES-5109

Fixed generating stubs to methods in namespaces containing an 'std' namespace.

Environment Editor (TEE)

Enhancement

TES-5018

Fixed column headers for system environments in the Attributes View.

Fault Injection

TES-5069

Update flow chart after source change without interface change.

Fault Injection

TES-5078

Fixed inserting fault injections to functions in source files marked with 'Hide Functions'.

Instrumenter

TES-5034

Fixed possible access violation when instrumenting a source with many string literals.

Instrumenter

TES-5111

Fixed Testobject 'class::method' not found error if class is derived from a template class.

Interface Assigner (IDA)

Enhancement

TES-5005

Find corresponding old functions when a module is changed from a C to a C++ environment.

Interface Database (IDB)

TES-5020

Fixed changed enum constant values in test data if the enum is not part of the test objects interface.

Interface Database (IDB)

TES-5023

Ignore possible illegal state at extern function.

Release v5.1.10 (67 items)

Interface Database (IDB)

TES-5026

The "Enable Define Variables" setting was not applied to a variable when the scope changes from (static) global to extern during auto reuse.

Interface Database (IDB)

TES-5054

Interface change was not detected when only a parameter of an extern function was added or removed.

Interface Database (IDB)

TES-5056

Fixed erroneous interface after importing a C++ Module with an unknown environment.

Interface Database (IDB)

TES-5105

Fixed possible loss of data in Component Test when an automatic reuse is done due to a minor interface change.

Parser

TES-4901

Updated the TKS header file for TI compiler.

Enhancement

Parser

TES-5022

Fixed possible error in Interface Database for classes with multiple base classes.

Parser

TES-5024

Fixed missing memory modifier at scalar typedef.

Parser

TES-5123

Improved Duplicated Defines Header feature.

Parser

TES-5125

Fixed missing array size if an array is declared extern without size and in another source later defined.

Plot View

TES-5126

Fixed exception when reloading plot view after test execution.

Report

TES-4093

Added UUID and complete path for comments/specification/description list entries within overview report.

Enhancement

Requirements

TES-5038

Bugfix for possible NullPointerException during TMB backup or validation matrix export.

Release v5.1.10 (67 items)

Script Editor

New Feature

TES-4358

Added support for default array elements in the Script Editor.

TESSY (General)

Enhancement

TES-5037

Improve error message in case a socket error occurs.

TESSY (General)

TES-5074

Fixed "Comparison method violates is general contract" error when attempting to analyze or execute test collections whose names are identical except for one of them being capitalized.

TESSY (General)

Enhancement

TES-5076

Added template example to C++ example project.

TESSY (General)

TES-5106

Fixed editor file type association feature.

TESSY (General)

TES-5122

(Ubuntu Linux only) replaced dependencies conflicting with gnu cross compilers.

Test Cockpit

TES-4968

When instrumenting with "Test Object and Called Functions" the coverage from the called functions were not considered when recalculating total coverage.

Test Cockpit

TES-5048

Don't include coverage results for a summary test object in the Test Cockpit if no test results are available.

Test Cockpit

TES-5077

Fixed potential exception of missing meta data file when updating the test summary.

Test Cockpit

TES-5085

Fixed possible wrongly summarized coverage if tests were conducted with different coverage measurements enabled (e.g. component tests with only CPC and unit tests with only C0/C1).

Test Data Editor (TDE)

TES-5087

Check entered value if an enum type is used in a bitfield.

Release v5.1.10 (67 items)

Test Evaluation

TES-5082

Fixed evaluating floating point values with deviation.

Test Execution

New Feature

TES-5019

A new attribute "Post Abort Command" has been implemented, which is called when TESSY aborts a single test.

Test Execution

TES-5035

Fix mingw32 bug concerning spaces in path names.

Test Execution

TES-5043

Don't execute Pre/Post Execution Commands when only a module analysis is being performed.

Test Execution

TES-5045

Disable scroll lock in the Console View before executing a test if the preference option "Clear console before execution" is enabled.

Test Execution

Enhancement

TES-5053

Added version 6.1.1 of the UDE DLL.

Variant Management

TES-5066

After the interface of a filtered function has changed a subsequent synchronization of a variant module possibly failed.

Variant Management

TES-5080

Fixed synchronization problem of inherited modules which could cause the wrong identifiers being displayed within the usercode.

Release v5.1.9 (68 items)

ASAP Conversion

TES-4941

ASAP Information was missing at synthetic variables created during import of test data.

C++

TES-4973

Fixed generated C++ driver code for inner struct with tagname inside anonymous inner struct.

Release v5.1.9 (68 items)

CTE

TES-4996

Fixed an error which interrupted the saving process in context with union members with IN passing in dynamic objects .

CTE

TES-5015

CTE-619 To save space the children of test groups and sequences are not shown in the properties view anymore.

CTE-634 Fixed empty "Validation Issues" view when connection line was selected in tree part of editor and when issue entries were expected to be listed.

CTE-631 Reset "Search Result" view when all editors are closed for a CTE document.

CTE-522 Now CTRL+F (opens the Find Dialog) is also available directly in Properties view and other CTE views.

CTE-622 Fix that comments are not in quick edit mode after creation.

CTE-629 Fixed an exception which occurred after deleting a node with validation issues.

CTE-455 Allow copy and paste between the standalone CTE and the CTE integrated in TESSY 5.1.9 and later.

Enhancement

Command Line (tessycmd)

TES-4922

Fixed an error which prevents to write the execution problems log at tessyd shutdown.

Command Line (tessycmd)

TES-4924

Fixed tessycmd export format option:

-format "xml" now produces a TESSY details report

-format "yaml" produces a YAML file

Command Line (tessycmd)

TES-4997

Fixed headless import of CSV files (via tessycmd).

Compiler/Target/Microcontroller

TES-4454

New combination for TASKING SmartCode compiler with Lauterbach TRACE32 debugger.

New Feature

Compiler/Target/Microcontroller

TES-4689

New combination for Synopsys DesignWare ARC compiler and Lauterbach TRACE32 debugger.

New Feature

Compiler/Target/Microcontroller

TES-4745

Support for new SEGGER CC RISC-V compiler in combination with new SEGGER Embedded Studio emSim simulator.

New Feature

Compiler/Target/Microcontroller

TES-4769

New combination for Wind River ARM compiler with Lauterbach TRACE32 debugger.

New Feature

Compiler/Target/Microcontroller

TES-4860

Fixed TESSY's J-32 interface support of the MPLAB X debugger.

Release v5.1.9 (68 items)**Compiler/Target/Microcontroller**

TES-4863

Implemented new method of using resource list attributes.

Compiler/Target/Microcontroller

TES-4864

Added a TEE mod file which can be used for batch tests using Renesas CS+. For further hints refer to TESSY's Renesas CS+ application note.

*Enhancement***Compiler/Target/Microcontroller**

TES-4877

Added a new target section for STM32CubeIDE's GDB debugger.

*New Feature***Compiler/Target/Microcontroller**

TES-4887

Fixed error in common Makefile Template concerning built-in binary build.

Compiler/Target/Microcontroller

TES-4912

Implemented support for 64-bit MPLAB X master.

*Enhancement***Compiler/Target/Microcontroller**

TES-4920

Updated IAR ARM compiler dialect arguments.

*Enhancement***Compiler/Target/Microcontroller**

TES-4942

Updated Synopsys DesignMetaware IDB Makefile.

Compiler/Target/Microcontroller

TES-4947

Fixed Keil XC166 / Keil uVision Makefile template.

Compiler/Target/Microcontroller

TES-4958

Updated TKS configuration for Green Hills V850.

*Enhancement***Compiler/Target/Microcontroller**

TES-4961

Fix AD Sharc TKS template file.

Compiler/Target/Microcontroller

TES-4970

Updated TKS header for the TI C++ compiler.

*Enhancement***Compiler/Target/Microcontroller**

TES-4977

Updated configuration to support the latest 2024-01 version of e2 studio.

Enhancement

Release v5.1.9 (68 items)

Compiler/Target/Microcontroller

TES-5012

Fixed TARGETLINK script template for MATLAB integration.

Component Test

TES-4934

When executing a component test without instrumentation or with test data pattern or with mutation the call trace was marked as failed when the INIT time step was empty.

Component Test

TES-4982

Fixed empty array data entries in report for time steps without test data but with eval macros.

Coverage Measurement

TES-4960

New Attribute 'Enable Coverage Data Compression':

If set to true, the coverage metadata will be compressed during test execution. Especially for tests with a large number of loop cycles, this option will significantly reduce the size of the data files and thus shorten the test execution time.

Enhancement

Driver

TES-4812

Fixed error if a typedef of a struct containing an anonymous struct array is used inside another anonymous struct array.

Driver

TES-4898

Added 64-bit master support for Eclipse CDT, winIDEA, and MPLAB X.

Enhancement

Driver

TES-4952

Fixed missing type modifier in parameter of function pointer parameter passed as parameter to a constructor.

Environment Editor (TEE)

TES-4930

Use different icon for a File attribute defined as list

Environment Editor (TEE)

TES-5003

Now content entered into TEE attributes will be trimmed.

Enhancement

Import/Export

TES-4988

Fixed test data import for anonymous struct inside union.

Instrumenter

TES-4925

Fixed a possible race situation with parallel test execution.

Release v5.1.9 (68 items)

Instrumenter

TES-4926

Possible incorrect instrumented code has been fixed if a cast to a tag type is present.

Instrumenter

TES-4964

Fixed instrumentation error if a function call via generic selection is present.

Enhancement

Instrumenter

TES-4966

Fixed faulty generated test driver code if the source file contains a byte order mark.

Interface Database (IDB)

TES-4923

Fixed interface being empty after restarting TESSY while a test object that has been executed with coverage is selected in the Test Data Editor.

Interface Database (IDB)

TES-4986

Analyze module failed when the return type of an external function changed.

Interface Database (IDB)

TES-5004

Fixed merging new interface to old interface a second time if exactly the first interface change was reverted.

Parser

TES-4929

Fixed test driver generation failure if STL classes are used.

Parser

TES-4937

When using the attribute 'Simplified Header Folder List' the parameter names of inline functions were missing, leading to compiler errors when the function was stubbed.

Parser

TES-4991

Fixed resolving filenames with wildcards in 'Header File Exclude List'.

Enhancement

Report

TES-4963

Fixed merging of PDF reports into one document when HTML contents of the reports already contain hyper links.

Scenario Editor (SCE)

TES-4951

Fixed an exception in the Scenario Editor that would occur when a module is analyzed during test execution.

TESSY (General)

TES-4330

Updated toolbar and view icons for properties and console view.

Enhancement

Release v5.1.9 (68 items)

TESSY (General)

TES-4978

Fixed possible duplicate test object after failed module analyze.

TESSY (General)

TES-4995

Replaced vulnerable JAVA plugin org.apache.log4j with ch.qos.reload4j.

TESSY (General)

TES-5013

Updated host target connection files for CTC++ 10.1.

Enhancement

Test Cockpit

TES-4872

Do not require summary test objects without test data to be tested if the preference option "Require testing identical test objects for all variations of a source file" is disabled and an identical summary test object with test data exists in another source variant.

Test Cockpit

TES-4931

Fixed calculating summary when preprocessed source file has white space in otherwise empty line.

Test Cockpit

TES-4936

Fixed source scanner problems with multi line macros and character constants containing an opening or closing parenthesis.

Test Cockpit

TES-4939

Fixed exception in Test Cockpit when removing a source file from an analyzed module.

Test Cockpit

TES-4945

Fixed missing functions at source file with WindRiver Compiler.

Test Cockpit

TES-4949

Fixed exception when initializing the Test Cockpit when a source folder has been deleted in the file system.

Test Cockpit

TES-4950

Improved performance of initializing and refreshing the Test Cockpit.

Test Cockpit

TES-4956

Fixed a bug where the test summary would not be persisted between sessions, which made it necessary to always initially refresh the Test Cockpit after restarting TESSY.

Release v5.1.9 (68 items)

Test Cockpit

TES-4957

Normalize paths for source files in the Test Cockpit.

Test Cockpit

TES-4983

Ensure that the Test Cockpit is updated after analyzing a module, even if there are no changes of the interface.

Test Cockpit

TES-4985

Moved test summary XML metadata to the TESSY work folder.

Test Cockpit

TES-5006

Fixed update of source files with mixed upper/lowercase letters within the file name.

Test Data Editor (TDE)

Enhancement

TES-4940

Improved performance of the TDE when editing scenarios.

Test Data Editor (TDE)

TES-5008

Fixed filter text in Test Data Editor.

Test Database (TDB)

TES-4928

Fixed possible error reusing pointer target names to dynamic objects inside struct arrays.

Test Execution

New Feature

TES-3995

New Attribute 'Stop On First Failure'. If set to true the test aborts on the first failed test result. This feature is only available for targets using socket communication.

Test Execution

New Feature

TES-4894

Added attributes "Pre Debug Command" and "Post Debug Command".

Test Execution

TES-4910

Fixed possible test driver crash when executing with MC/DC coverage and a condition with a huge number of atoms is present.

Release v5.1.8 (66 items)

C++

TES-4760

Fixed possible instrumenter syntax error if a range-based for loop is used.

Release v5.1.8 (66 items)

C++

TES-4780

Fixed errors in test driver for dynamic class objects using a constructor with pointer parameters.

C++

TES-4799

Wrong cast was generated in test driver for static variables of type 'enum class'.

C++

TES-4802

Fixed error in test driver when accessing members of a private base class.

C++

TES-4805

Fixed error in test driver when a constructor parameter is a pointer and the target is a variable defined in the user code definitions.

C++

TES-4806

Wrong variable name was generated for a pointer class member when this class is a class reference member of another class.

C++

TES-4832

Possible instrumentation error fixed if functions or methods with the same name but different signatures exist.

C++

TES-4837

Fixed instrumenting code with constructor using curly brackets in initializer list.

C++

TES-4848

Superfluous code was generated to C++ driver for global pointer when the test object is not a method (normal function).

CTE

TES-4867

Fix missing CTE node mapping files produce unnecessary error messages.

Command Line (tessycmd)

TES-4223

tessycmd list-source-files now prints the absolute path of the source files.

Command Line (tessycmd)

TES-4581

Fixed tessyd cannot connect to license server if no port is given, even though license server works on default port.

Release v5.1.8 (66 items)

Command Line (tessycmd)

TES-4791

Fixed deadlock when starting tessyd without an actual project.

Command Line (tessycmd)

TES-4792

Fixed error messages being printed as HTML.

Compiler/Target/Microcontroller

New Feature

TES-3824

New compiler Frontgrade Gaisler BCC with Frontgrade TSIM simulator.

Compiler/Target/Microcontroller

Enhancement

TES-4776

Updated Microchip TKS file.

Compiler/Target/Microcontroller

TES-4798

Fixed Makefile templates that used erroneously ts_pathname, which is no longer supported.

Compiler/Target/Microcontroller

Enhancement

TES-4820

Adjusted the Slave Call for the TASKING Script debugger.

Compiler/Target/Microcontroller

TES-4821

Fixed IDB IAR ARM file path in configuration.

Compiler/Target/Microcontroller

Enhancement

TES-4838

Updated the preprocessor call, the IDB Makefile, and the Makefile template for IAR ARM C++ compiler.

Compiler/Target/Microcontroller

TES-4839

Fixed several communication Makefiles.

Compiler/Target/Microcontroller

TES-4845

Fixed attribute "Master Call" for a few debuggers.

Compiler/Target/Microcontroller

Enhancement

TES-4850

Updated TKS file of GNU Toolchain for PowerPC.

Component Test

TES-4879

Unused dynamic objects in time steps may cause the time steps to be marked as failed although the scenario is actually passed.

Release v5.1.8 (66 items)

Coverage Reviews

TES-4817

Only include valid coverage reviews into test summary report.

Coverage Reviews

TES-4921

Convert paths when restoring coverage reviews or importing a test summary that were created in a different operating system.

Coverage Viewer (CV)

TES-4616

Incorrect code highlighting when there is an external "C" declaration that spans multiple lines has been fixed.

Coverage Viewer (CV)

TES-4813

Number of unreached/reached decisions within the ASCII coverage report was incorrect for test objects containing switch statements with conditions in the selector (The total coverage percentage was calculated correctly).

Coverage Viewer (CV)

TES-4814

Source in Coverage Viewer was not always colored correctly when a test object was not in the first source of a modules sources.

Coverage Viewer (CV)

TES-4841

Fixed exception when executing a test in the Overview perspective after a scenario has previously been open in the Scenario Editor.

Driver

TES-4778

Code incompatible to ISO C was generated when using dynamic objects.

Driver

TES-4840

Fixed filtering macros according to the filter given in attribute 'Generate Defines Exclude List' for macros containing parameters.

Environment Editor (TEE)

TES-4808

Added "Device Family Pack" attribute to Microchip XC8 compiler.

Enhancement

Environment Editor (TEE)

TES-4897

Fixed Language attribute for IAR RISC-V (C++).

Release v5.1.8 (66 items)

Fault Injection

TES-4899

Fixed building/updating the decision path for control flow graph locations having sub flows within their parent chain path.

Import/Export

TES-4862

Fixed updating passing directions during test data import.

Instrumenter

TES-4828

Fixed instrumenter infinite loop if a typedef to a function pointer spans multiple lines and contains preprocessor information.

Instrumenter

TES-4833

Incorrect code in the instrumentation of functions that declare an external function inside the body has been fixed.

Instrumenter

TES-4881

Fixed instrumentation of code with goto label.

Instrumenter

TES-4919

Fixed wrong coverage result if a function pointer in a call expression is guarded with superfluous parentheses. [e.g. (0 == structure ? 0 : (structure->pointer)())]

Interface Assigner (IDA)

TES-4675

An automatic reuse of a test object with changed interface will now be executed if:

- Variables were only added to or only removed from the interface.
- Parameters were only added to or only removed from the interface.
- The return type was changed from any type to void or vice versa.
- Scope of variables was changed.
- Not stubbed extern function calls were changed.

Enhancement

Interface Assigner (IDA)

TES-4766

Button to move unused variables/functions to the interface of the target function was missing.

Interface Assigner (IDA)

TES-4856

CTE tree node data was lost after data assignment between different test objects.

Interface Assigner (IDA)

TES-4865

Fixed context menu entries in IDA.

Release v5.1.8 (66 items)

Parser

TES-3796

All tagged types of local variables will now be collected to be available in Create Variable dialog.

Enhancement

Parser

TES-4891

Fixed tks-ti parser file concerning `__byte()`.

Enhancement

Parser

TES-4904

Fixed parsing gcc C++ header files with macro `__integer_pack`

Project Handling

TES-4906

Renamed button in "Select Project" dialog when no project is open.

Enhancement

Report

TES-4789

Generating the test overview report within a batch operation failed if creating test details reports was selected as well and any of the test details reports could not be created.

Report

TES-4829

Fixed missing graphics within HTML formatted test summary report.

Report

TES-4868

Fixed possible wrong result significance for test objects with only a return value as result.

Save/Restore Database (TMB Files)

TES-4873

Do not allow `|` in file names.

Save/Restore Database (TMB Files)

TES-4900

Fixed race condition when importing multiple tasks into the same folder.

TESSY (General)

TES-4847

Added new tool `tessyenv` to execute commands with a TESSY environment.

- To run a script within the TESSY bash shell:

```
tessyenv shell -f runQTS.sh
```

- To get an environment variable provided within the TESSY bash shell:

```
export $(tessyenv env | grep JAVA_HOME)
```

New Feature

TESSY (General)

TES-4890

Fixed naming of test execution log files. This caused empty or wrong messages being displayed for exceptions within the problems log view/dialog.

Release v5.1.8 (66 items)

Test Cockpit

Enhancement

TES-4794

Show summary test objects as being incomplete if there are any not executed test cases for any of their contributing test objects.

Test Cockpit

TES-4801

The instrumentation mode "Test Object and Called Functions" could cause missing coverage being displayed within the Test Cockpit view for changed and retested test objects while an imported test summary was active.

Test Cockpit

TES-4803

The setting of the test cockpit preference "Require testing identical test objects for all variations of a source file" was not applied if an imported test summary was active. Imported test summary results were handled as if the preference was not set.

Test Cockpit

TES-4824

Do not attempt to open the interface database for test objects that have been removed or whose interface has changed.

Test Cockpit

TES-4846

Fixed source scanner for comments in defines.

Test Cockpit

Enhancement

TES-4861

Ignoring line endings in the SHA1 source code hash calculation to avoid problems when switching between different operating systems.

Test Data Editor (TDE)

TES-4730

Clarified label and icon for functions filter in Calltrace view

Test Data Editor (TDE)

Enhancement

TES-4797

Fixed entering invalid enum values and enhanced usability of cell editing.

Test Database (TDB)

TES-4882

Fix that INOUT scalar values in dynamic objects are not saved when no IN value is set.

Test Execution

TES-4889

Fixed potential "end before start date" problem when creating test runs.

User Manual

Enhancement

TES-4795

Documented the minimal requirements and settings for headless TESSY on Linux systems.

Release v5.1.7 (21 items)

C++

TES-4710

If an advanced stub parameter or return is a class with a base class an erroneous class was created.

C++

TES-4711

Avoid instrumenting class visibility statements while inside a standard template library namespace.

C++

TES-4715

Superfluous code was generated to C++ driver for unused methods with pointer or reference to class parameter.

C++

TES-4747

Fixed parser error if classes/templates with only tag definitions are used.

CTE

TES-1751

New Feature

In CTE there is now a menu action available which allows to select the attached interface element or the attached test data in the TDE view.

CTE

TES-4537

Fix 'Update names of nodes with attached interface' not working for return values.

Instrumenter

TES-4709

Enhancement

Fixed infinite loop when a string initializer list start with '('.

Instrumenter

TES-4754

Fixed test driver generation issue for CPC coverage if function pointers are used.

Report

TES-4736

Enhancement

Added the summary test object status "Incomplete" to the test summary report.

TESSY (General)

TES-4190

Refresh the text filter for attributes when switching to a different element in the Test Project View.

TESSY (General)

TES-4678

Update last modified timestamp when the description, specification or comment of an element is modified, an attribute is modified, or a requirement link is updated.

TESSY (General)

TES-4706

Enhancement

Implemented Show-Overwritten-feature in TESSY's Property view.

Release v5.1.7 (21 items)

TESSY (General)

TES-4717

Removed Test Results View from the default perspective layout in the Overview and TDE perspectives.

TESSY (General)

TES-4718

Fixed toggle button state for attributes in the Overview perspective not being persistent after restart.

Test Cockpit

TES-4703

Fixed source file analysis: Handling of paranthesis within strings corrected.

Test Cockpit

TES-4704

Fixed potential race condition when unit test and one or more component tests are contributing to the same source file within the test summary.

Test Cockpit

TES-4707

Fixed refresh of test summary: When source files were changed for a module, the respective source files were showing a warning decorator erroneously indicating that there were no modules for this source file.

Test Cockpit

TES-4727

Added command in Test Cockpit to reset the test summary and all test results.

New Feature

Test Cockpit

TES-4739

Correctly display summary test objects with incomplete results in the Test Cockpit.

Test Cockpit

TES-4740

Do not apply "Skip test objects with valid result" to summary test objects with incomplete imported results.

Test Cockpit

TES-4741

Analyze all relevant modules before execution when the "Skip test objects with valid results" option is enabled while the Test Cockpit contains imported results.

Release v5.1.6 (20 items)

CTE

TES-4465

Activate the feature preference "Update names of nodes with attached interface elements" by default.

Release v5.1.6 (20 items)

CTE

Enhancement

TES-4584

CTE-179 Meta information can be seen and manipulated in the Properties view. The default text of comments shows variable usage to show this information in comments.

CTE-568 The type of a mark can be changed in "circle", "square" and "triangle". There is no special handling behind types. Their purpose is for documentation and user defined workflows.

CTE-582 Newly created CTE nodes will be in quick edit mode for the name.

CTE

TES-4653

Added a timeout to unblock TESSY runs. The timeout can be set up via the properties "com.razorcat.cte.export.timeout" the default value is 10 meaning 10 seconds. Furthermore the number of retries after a timeout is controlled via "com.razorcat.cte.export.timeout.retry" the default value is 1.

Coverage Measurement

New Feature

TES-4198

Added new source code line based coverage measurements: Code Access (CA) and Hyper Coverage (HC) which will be calculated based on the standard coverage measurements (C0, C1, DC, MC/DC, MCC, CPC).

Coverage Measurement

New Feature

TES-4642

Enhanced functionality to create lcov coverage.info file along with the test summary report. This enables users to seamlessly generate lcov HTML coverage reports using TESSY coverage data.

Metrics

Enhancement

TES-3906

Added the ability to modify the default hours per day in preference metrics.

The Actual time and Estimated time will be automatically updated to reflect the changes.

Metrics

Enhancement

TES-4643

Improved representation of Estimated/Actual Time metrics. Minutes will now be retained at the test object level, but omitted at the module, folder and test collection levels when weeks or days are present.

Parser

TES-3674

The legacy parser (non-CLANG) has been removed. Projects using the legacy parser need to be migrated to the CLANG parser.

Scenario Editor (SCE)

New Feature

TES-4491

All functions can now be checked as called functions in component tests.

Script Editor

New Feature

TES-3608

Update CTE test data and requirement links when committing a script.

Script Editor

New Feature

TES-3947

Support default array values in scripts.

Release v5.1.6 (20 items)

Script Editor

Enhancement

TES-4062

Create missing synthetic variables when committing a script.

TESSY (General)

New Feature

TES-4311

Add coverage reviews to provide a reason why code lines have not been reached during test execution and count them when determining the reached coverage for a source file.

TESSY (General)

New Feature

TES-4323

Now TESSY is prepared to scale images on high-DPI monitors automatically.

TESSY (General)

Enhancement

TES-4325

Now all icons used in menus, toolbars, labels and other widgets are replaced by redesigned icon versions.

TESSY (General)

TES-4495

Enable module analysis for any selection containing one or more test objects and/or modules in the Test Project View.

TESSY (General)

TES-4496

Add "Force Analyze Modules" command in the Test Project View.

TESSY (General)

Enhancement

TES-4516

New option available to use shorter paths for temporary files generated for modules and test objects.

Test Cockpit

New Feature

TES-4310

The new Test Cockpit view provides information about test progress and overall test and coverage results. It shows source files with each of their variations being tested and their related tests. The new "Code Access" (CA) and "Hyper Coverage" (HC) measurements are available within this view.

Test Data Editor (TDE)

Enhancement

TES-4681

It is now possible to attach a test interface element to multiple selected nodes at once, this is intended to ease linking array elements.
