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Release Notes

Release v4.3.5 (14 items)

C++
TES-3736

Possible parser error if recursive structures without a tag name are used.

C++
TES-3750

Fixed instrumenting constructor preceded by an explicit deleted copy constructor.

Command Line (tessycmd)
TES-2885

The export format "yaml" could not be selected using tessycmd export command.

Compiler/Target/Microcontroller
TES-3727

Updated default compiler dialect for GNU Tools for ARM Makefile templates.

Component Test
TES-3740

Fixed component test execution for targets using file communication.

Driver
TES-3729

Fixed generating namespace name for a type defined in a base class in a different namespace.

Import/Export
TES-3731

Fixed importing dynamic object of pointer in struct array.

Instrumenter
TES-3193

Added support to test operators new and delete with instrumentation.

Release v4.3.5 (14 items)

Mutation Test

TES-3732

Fix determining test object mutation score for targets using file communication (e.g. IAR/C-SPY).

Parser

TES-3734

Fixed scanner call for IAR RX.

Save/Restore Database (TMB Files)

TES-3733

Include paths where not shown in "Sources" tab after restoring a TMB file.

TESSY (General)   *Enhancement*

TES-3728

Always open internal editor when using "Open With Editor".

TESSY (General)

TES-3749

Test objects where missing in module backups of modules that currently failed to analyze, but that where analyzed in the past.

Test Data Editor (TDE)

TES-3748

An error message will now be issued if advanced stub vector values are entered for struct/union members (which is not supported).

Release v4.3.4 (45 items)

ASAP Conversion

TES-3680

Fixed reuse of expressions in modules where ASAP is enabled.

C++

TES-3619

Fixed problem testing functions using a class where a member variable and an inherited member variable have an equal name.

C++

TES-3714

Fixed error in generated driver for function with template parameter.

CTE

TES-3686

Fixed saving values for union components.

CTE

TES-3704

Fixed an missing update of the advanced stub call vector size when using vector values (e.g. "{1,2,3}").

Release v4.3.4 (45 items)

CTE
TES-3705

Fixed problem with dynamic objects: Dynamic test data entries were deleted in CTE when not referenced by a pointer in the same CTE node.

Compiler/Target/Microcontroller
New Feature

TES-3610

New combination for HighTec TriCore compiler and TASKING VX debugger.

Compiler/Target/Microcontroller
TES-3621

Fixed Microchip dsPIC configuration regarding Object Module Format.

Compiler/Target/Microcontroller
Enhancement

TES-3657

Reduced test execution time for NXP (former Freescale) CodeWarrior 10/11.

Compiler/Target/Microcontroller
TES-3677

Fixed possible compile time error concerning tstcomm_send_compress().

Compiler/Target/Microcontroller
Enhancement

TES-3695

Changed default optimization in TEE attribute Tricore Compiler Options to no optimization.

Compiler/Target/Microcontroller
TES-3713

Fixed Makefile template for GNU Tools for ARM with TRACE32.

Compiler/Target/Microcontroller
Enhancement

TES-3719

Implemented optional SOFT breakpoints for TRACE32's timer feature.

Defines
TES-3661

Fixed possible access violation in defines parser.

Driver
TES-2790

Fixed erroneously generated test driver for anonymous unions in IAR compiler headers.

Driver
TES-3039

Fixed evaluation of reference member variables.

Driver
TES-3625

Fixed terminating master after slave exits with error.

Release v4.3.4 (45 items)

Driver
TES-3629

Fixed possible missing function prototypes in generated slave source files in modules with multiple source files.

Driver
TES-3641

Fixed error linking slave for compilers with 16/32 bit char type.

Driver
TES-3667

Fixed erroneous namespace for inner struct in class used as parameter for a constructor of a class in a different namespace.

Driver
TES-3682

Fixed missing library in master make files master_mplab_gnu_i386.mk and master_segger_gnu_i386.mk.

Driver
TES-3715

Fixed possible error generating driver if a pointer targets a dynamic object created at another pointer in "Inputs" section of TDE and a normal target in "Outputs" section or vice versa.

Driver
TES-3721

Fixed Pattern Test with unions for tests using file communication.

Environment Editor (TEE)
TES-3643

Attribute values edited for entries in "All Environments" view were not inherited to project environments (only after restart of TESSY). Values edited for C++ environments were not saved at all.

Also the special SOURCEROOT variable was not applied when collapsing paths. Paths already containing $(SOURCEROOT) were shown as erroneous.

Environment Editor (TEE)
TES-3692

Fixed resetting "All Environments" level attributes to factory value. Also fixed an exception that occurred when using "Edit Attribute..." to change an attribute value.

Environment Editor (TEE)   *Enhancement*
TES-3697

Enhanced UI functionality:
- Added "Copy To Configuration" and "Open with Application/Editor" menu entries to attributes view
- Show decorator for "Makefile/Path/Environment" flags
- Ignore inheritance when sorting attributes
- Provide buttons to change the order of include paths within the include files dialog for directory attributes

Environment Editor (TEE)   *Enhancement*
TES-3700

Updated TEE groups entries.

Release v4.3.4 (45 items)

Environment Editor (TEE)
Enhancement

TES-3703

Fixed test execution problem with multiple target instances (e.g. available for TRACE32) caused by missing "Resource List" attribute flag.

Instrumenter

TES-3626

Fixed wrongly instrumented code for CPC coverage in case of a switch expression that was surrounded with additional parentheses.

Instrumenter

TES-3673

The module attribute "Instrumentation Exclude List" was not working for inline functions.

Interface Database (IDB)

TES-3630

Possible wrong call trace and/or stub code if template functions were used.

Interface Database (IDB)

TES-3631

Exclude template functions as test objects.

Interface Editor (TIE)

TES-3722

If a class members was set to EXTERN all members might become EXTERN when loading the test object again.

Parser

TES-3671

Fixed parsing source using _Static_assert with legacy parser.

Script Editor

TES-3623

Fixed erroneous test data status (grey test cases) in case of unused dynamic objects still present within script inputs section.

TESSY (General)
Enhancement

TES-3639

Add filter text in Attribute Section in Properties View.

TESSY (General)

TES-3668

Fixed potentially suppressed error messages within the messages view.

TESSY (General)
Enhancement

TES-3706

Fixed makefiles used for CTC++ integration and updated application note.

Release v4.3.4 (45 items)

Test Data Editor (TDE)

TES-3642

Fixed "Copy Actual Value" for arrays.

Test Database (TDB)

TES-3627

Fixed missing values of dynamic objects (that have passing OUT only) if a new dynamic object was created after a new test case was added.

Test Database (TDB)

TES-3654

Fixed copying inherited test steps within the test items view. Inherited test data has not been copied to the newly pasted test steps.

Test Execution   *Enhancement*

TES-3699

Fixed exception while building coverage reports for source code containing ternary expressions (the "?" operator) in decisions of while loops.

Test Execution

TES-3708

Fixed possible error generating report during batch test execution when advanced stubs are used for other test objects called by the test object under test.

Test Execution

TES-3724

Fixed test objects not being evaluated after retrying execution.

Variant Management

TES-3640

Corrected behavior for overwriting inherited test cases.

Release v4.3.3 (5 items)

Command Line (tessycmd)   *Enhancement*

TES-2442

Shell completion for tessycmd is now available within the bash shell started from the TESSY help menu.

Environment Editor (TEE)   *New Feature*

TES-3219

The new TEE perspective provides easy access to the environment configuration within TESSY. Project environment elements inherit from the respective system environment and will be stored within the configuration file. Multiple environments can be compared and individual attribute values can be assigned to all selected environments. Also a grouping feature of attributes has been added.

Release v4.3.3 (5 items)

Mutation Test
New Feature

TES-3249

The new mutation test feature automatically checks the error detection capability of existing test cases. This unique function thus improves the review of test methods and test quality, as required by the standards for functional safety (IEC 61508, IEC 62304, ISO 26262 and EN 50128) and significantly reduces the manual review efforts.

Test Execution
New Feature

TES-2925

The new additional test execution features provide automated quality analysis of test cases.
- "Run without instrumentation" executes without any source code instrumentation.
- "Run with test data pattern" initializes all OUT variables with two configurable patterns.
- "Run mutation test" executes the test cases with mutated code.
All additional executions are conducted after successful completion of the normal test execution (either with or without coverage measurement) and all of them must yield the same results as the normal test execution.

Test Execution
New Feature

TES-3194

The new test data pattern initialization feature checks the independence of test cases and ensures that all expected outcomes have explicitly been calculated.
In order to check whether variables with passing direction OUT have really been written during execution of a test case, two different test data patterns can automatically be applied to initialize such variables (or components of structs/unions) without the need to change the passing direction.