



Tessy 2.9

Release Notes



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These release notes for Tessy v2.9.748 contain a summary of the changes which were made since the major release of Tessy v2.6.

Addressed In: 2.9.748 (21 item(s))

CR Number: 4115

Component: IAR AVR

Fix: Parser supports `_Pragma(...)` for IAR AVR.

CR Number: 4113

Component: IAR 78K0

Fix: Handling of `__saddr` (short address) in driver.

CR Number: 4111

Component: Driver

Fix: Possible crash of master process if the source contains conditions having function calls as atoms.

CR Number: 4110

Component: TI TMS320 C6000

Fix: Support keyword `__cregister` and builtin type `__int40_t` for TI TMS320 C6000.

CR Number: 4109

Component: Rensas NC30 / NC100

Fix: Building driver with more than one source file.



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CR Number: 4106

Component: ARM RVDS / HiTOP5

Fix: New compiler/target integration: ARM RVDS / HiTOP5

CR Number: 4105

Component: ARM RVDS / PLS UDE

Fix: New compiler/target integration: ARM RVDS / PLS UDE

CR Number: 4104

Component: Instrumenter

Fix: Possible crash with conditions in macros.

CR Number: 4103

Component: Report / CHM Format

Fix: Problem with plot image files within CHM documents.

CR Number: 4102

Component: Driver

Fix: Missing memory modifier at pointer to array.

CR Number: 4100

Component: TASKING Tricore

Fix: Parser error with "__noreturn__" attribute



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CR Number: 4097
Component: Renesas - TEE Configuration
Fix: Problem with spaces in path names.

CR Number: 4096
Component: Tessy
Fix: Spaces within the backup folder path or module save path are possible now (even though not recommended).

CR Number: 4093
Component: Driver
Fix: Pointer targets assigned in function local array resulted in *unknown* actual value.

CR Number: 4090
Component: Driver (Wind River Workbench)
Fix: Problem with exchange buffer for Wind River Workbench.

CR Number: 4085
Component: IAR R32C
Fix: Support keyword `__no_init` for IAR R32C.

CR Number: 4084
Component: IAR V850
Fix: Support `#pragma pack(push)` and `pop` directives for IAR V850 Compiler.



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CR Number: 4083

Component: Parser/IAR R32C

Fix: Handling of IAR specific code constructs '@ 0x00', '0.NaN', '0.Infinity', '__c99_generic(...)' and '#pragma inline' corrected.

CR Number: 4082

Component: Driver

Fix: Declaration of function prototypes to send/receive arrays without "volatile" keyword.

CR Number: 4055

Component: Report

Fix: Copy plots to report directory, if different from default (module directory).

CR Number: 3955

Component: TDE

Fix: Passed array values sometimes show as failed when Attribute "Conversion Delta LSB" is used.

Addressed In: 2.9.747 (14 item(s))

CR Number: 4079

Component: IDA

Fix: Possible Problem with functions that were removed and are added again after a reuse.



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CR Number: 4075

Component: Evaluation

Fix: The evaluation process may fail on a large number of test cases.

CR Number: 4064

Component: Instrumenter

Fix: Wrong code generation for "if" statements directly followed by keywords (without "{}" block delimiters, e.g. "if (x) break;") if instrumentation is "none" but instrumentation is done because of static variables, stub functions, or calltrace.

CR Number: 4062

Component: Parser/HI-TECH PIC18

Fix: Adapted parser to Version 9.8 of HI-TECH PIC18.

CR Number: 4061

Component: Driver

Fix: Error in slave with OUT pointer to pointer to Dynamic Objects.

CR Number: 4058

Component: TRACE32

Fix: Performance problem with newer TRACE32 versions fixed (applicable for all microcontroller).



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CR Number: 4057

Component: Driver

Fix: Definition of test driver send/receive functions for arrays with 'volatile' type modifier.

CR Number: 4056

Component: CDT Debugger for GNU/gcc

Fix: Support for the Eclipse CDT debugger for GNU/gcc added.

CR Number: 4046

Component: Parser/Driver

Fix: Analyzation and generating of #pragma pack(push) and #pragma(pop) directives.

CR Number: 4045

Component: Driver

Fix: Changed cast to access static variables due to problems with Keil XC166 compiler.

CR Number: 4044

Component: Parser

Fix: Support #pragma inline for IAR STM8 compiler.

CR Number: 4043

Component: Driver

Fix: Generate void to empty parameter list in slave to avoid errors with certain compilers.



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CR Number: 4038

Component: SCE

Fix: Missing icons an tooltip at Evalmacros C-Code-Fragments.
Wrong actual/expectd value at hex elements.

CR Number: 4017

Component: Defines

Fix: Wrong define value in shift operations if the MSB is set. [e.g. #define U32_SHIFT_31 ((unsigned int) 1) << 31]

Addressed In: 2.9.746 (17 item(s))

CR Number: 3988

Component: IAR C-SPY Debugger

Fix: Transferring test data containing the hex value 0x0A to the C-SPY debugger could cause problems.

CR Number: 3986

Component: Driver

Fix: Wrong declaration of wrapper function for static testobjects with structures as return or parameter.

CR Number: 3983

Component: Instrumenter

Fix: The instrumenter terminates with an error if a '\\\ character constant is seen.



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CR Number: 3981

Component: Parser/TI TMS xxx

Fix: Fixed missing space between static and inline keywords after preprocessing.

CR Number: 3980

Component: Batchtest

Fix: Suppress batchtest report progress dialog by setting TESSY_NO_BATCH_REPORT_PROGRESS in Tessy configuration file.

CR Number: 3978

Component: Batchtest

Fix: Setting 'Batchtest Wait Time' was not working correctly.

CR Number: 3966

Component: IDA

Fix: Passdirections of unassigned structure components may be inconsistent after reuse.

CR Number: 3965

Component: IDA

Fix: Improved automatic assignment of anonymous structs/unions.

CR Number: 3964

Component: Parser

Fix: Support #pragma pack() for Greenhills ARM.



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CR Number: 3963

Component: Driver

Fix: Possible Problems in driver when various dynamic INOUT pointers target one object.

CR Number: 3962

Component: HiTOP

Fix: Synchronization problem with large data transfers.
Transmission problem caused by query of endianness from slave.
"Permission denied" problem with data files on Windows 7.

CR Number: 3961

Component: SCE

Fix: View update.

CR Number: 3960

Component: Parser

Fix: Use original preprocessor for HI-TECH PIC16/PIC18 compiler.

CR Number: 3959

Component: Altera Nios II

Fix: Use TEE attribute for BSP library name.

CR Number: 3958

Component: STVD7

Fix: Template makefile must not use short paths.



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CR Number: 3957
Component: Renesas HEW Template Script
Fix: Changed address resolution mechanism.

CR Number: 3956
Component: STVD7
Fix: Sync wait time implemented for slow target connections.

Addressed In: 2.9.745 (13 item(s))

CR Number: 3938
Component: Driver
Fix: Missing function memory keywords for Cosmic (problem occurred in V2.9.(7)44).

CR Number: 3933
Component: Tessy
Fix: Force 'Generate Driver' when a copied testcase is pasted.

CR Number: 3932
Component: Parser
Fix: Support #pragma pack() for ARM RVDS.

CR Number: 3930
Component: Driver
Fix: Possible wrong code for dynamic objects inside other dynamic objects.



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CR Number: 3925

Component: Parser/IAR ARM

Fix: Added support for the `__constrange(n,m)` keyword.

CR Number: 3920

Component: VisualDSP++

Fix: Updated the target communication script to the latest VisualDSP++ version.

CR Number: 3919

Component: Report

Fix: Missing test step section in XML result file (problem occurred in V2.9.(7)44).

CR Number: 3918

Component: CTC++ Integration

Fix: New support for coverage measurements using CTC++ added.

CR Number: 3917

Component: IDB

Fix: Backward compatibility problem in interface database.

CR Number: 3915

Component: Driver

Fix: Wrong defines for static struct variables in address vector in usercode



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CR Number: 3913

Component: Export

Fix: Wrong stub function information in Excel export file.

CR Number: 3911

Component: Parser

Fix: Support `__restrict__` keyword for ARM RVDS.

CR Number: 3910

Component: Green Hills Software MPC compiler / Lauterbach Trace32 debugge

Fix: New support for Green Hills Software MPC compiler and Lauterbach Trace32 debugger added.

Addressed In: 2.9.744 (7 item(s))

CR Number: 3908

Component: Instrumenter

Fix: Wrong instrumentation if a while body consist of a single switch statement without surrounding curly brakets.

CR Number: 3900

Component: Driver

Fix: For Tasking XC166 cast far pointer to unsigned long in slave for comparison since only the first 14 bit of far pointers are compared.



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CR Number: 3898

Component: Driver

Fix: Error with static variables as pointer targets, when there are static variables in different memory areas.

CR Number: 3897

Component: Driver

Fix: Error generating memory modifier for functionpointers in structures.

CR Number: 3829

Component: TDE

Fix: Do not show evaluation icons at unused struct members.

CR Number: 3824

Component: HTML Report

Fix: Added missing default assignment for logoURL.

CR Number: 3800

Component: Component Test

Fix: Show Usercode fragments in Scenario report.



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Addressed In: 2.9.743 (12 item(s))

CR Number: 3895

Component: CTE/Tessy

Fix: Test step repeat count get lost during synchronization from CTE with Tessy.

CR Number: 3881

Component: Report

Fix: Header logo link substitution fails for IE.

CR Number: 3879

Component: Parser

Fix: Support for asm functions for Freescale MPC.

CR Number: 3878

Component: Driver

Fix: Generate `__packed` for structure declarations in slave if necessary.

CR Number: 3877

Component: Driver

Fix: Fixed cast for const arrays in slave.

CR Number: 3876

Component: Tasking Crossview

Fix: Optimized data transfer from/to target.



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CR Number: 3874

Component: Coverage Measurement

Fix: Optimized coverage data transfer resulting in shorter test execution time.

CR Number: 3872

Component: CTE/Tessy

Fix: Loss of test object prolog and epilog after synchronization with Tessy from CTE.

CR Number: 3871

Component: CTE/Tessy

Fix: Possible wrong test object state after synchronization with Tessy from CTE.

CR Number: 3870

Component: TI MSP430/TI CCSv4

Fix: New support added for TI CCSv4 Debugger and TI MSP430 C compiler

CR Number: 3869

Component: Coverage Viewer

Fix: Possible wrong function coverage result display (green dot).



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CR Number: 3818

Component: CTE/Tessy

Fix: Possible wrong test case states after synchronization with Tessy from CTE.

Addressed In: 2.9.742 (17 item(s))

CR Number: 3867

Component: CV

Fix: Wrong display of C1 coverage within CV for testobjects containing switch statements with fall-through cases (case without break).

CR Number: 3865

Component: Parser

Fix: Keyword `__forceinline` for ARM RVDS.

CR Number: 3849

Component: IDA

Fix: Crash when a formerly removed external function is back in interface again.

CR Number: 3848

Component: Driver

Fix: Error initializing addressvector in slave with static functions used as pointer targets.



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CR Number: 3847

Component: Driver

Fix: Code to access static variables of type bit if more than one is OUT.

CR Number: 3845

Component: Driver

Fix: Missing memory modifier in cast of absolute address.

CR Number: 3844

Component: Instrumenter

Fix: Add addresses of pointer targets inside static local structs to addressvector.

CR Number: 3843

Component: Driver

Fix: Error in generated code for far pointer inside far struct.

CR Number: 3842

Component: Driver

Fix: Do not generate code for fillbits in bitfields used by advanced stubs.

CR Number: 3841

Component: Driver

Fix: Error in functions to get/set array with pointers to functions in other memory sections.



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CR Number: 3840

Component: Driver

Fix: Moved variable initializations in slave code outside functions into function, These variables are not initialized by TI TMS 320 C6000 Compiler.

CR Number: 3839

Component: Driver

Fix: Error generating memory modifier for functionpointers for Cosmic Compilers.

CR Number: 3838

Component: Driver

Fix: Error generating memory modifier for array with functionpointers.

CR Number: 3837

Component: Driver/Component Test

Fix: Generate Evalmacros only for numbers, defines or enum constants.

CR Number: 3832

Component: ASAP

Fix: IDENTICAL compu method and ANNOTATION section handling added.

CR Number: 3826

Component: Green Hills Software MPC/Green Hills Software Multi2000

Fix: New support for Green Hills Software MPC compiler and Green Hills Software Multi2000 debugger added.



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CR Number: 3813

Component: MPLAB Simulator DLL

Fix: Updated MPLAB interface to support current version.

Addressed In: 2.9.741 (9 item(s))

CR Number: 3821

Component: Instrumenter

Fix: Type of current teststep and testcase in user source.

CR Number: 3820

Component: TXT Report

Fix: Added additional layout scripts for text reports.

CR Number: 3817

Component: IAR PIC18/MPLAB

Fix: New support added for IAR PIC18/Microchip MPLAB.

CR Number: 3814

Component: IDA

Fix: Automatic assignment of anonymous struct/union.

CR Number: 3806

Component: Parser

Fix: Added missing keywords for IAR STM8 compiler.



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CR Number: 3805

Component: IAR AVR32

Fix: Added support of IAR AVR32 Compiler on C-SPY Debugger.

CR Number: 3804

Component: Driver

Fix: Error in generated code to get/set static variables of type bit.

CR Number: 3803

Component: Driver

Fix: Generate defines for static variables to usersource when local functions are stubbed.

CR Number: 3802

Component: Driver

Fix: Possible error in driver with dynamic structs and normal structs of same type used as IN and OUT variables.

Addressed In: 2.9.740 (2 item(s))

CR Number: 3798

Component: Parser

Fix: Added keywords for IAR 78K0 V4.2.



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CR Number: 3796

Component: Tessy

Fix: Reset states to 'not executed' when user aborts test evaluation.

Addressed In: 2.9.739 (11 item(s))

CR Number: 3793

Component: Wind River / winIDEA

Fix: Update for Wind River / winIDEA

CR Number: 3792

Component: Wind River / Trace32

Fix: Update for Wind River / Trace32.

CR Number: 3790

Component: Parser

Fix: Added missing keywords for TI TMS320.

CR Number: 3781

Component: TMS 570/TI CCS4

Fix: Added emulator support for TMS 570/TI CCS4.

CR Number: 3780

Component: Microware Ultra C/RadiSys Hawk

Fix: Added C++ support for Microware Ultra C/RadiSys Hawk.



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CR Number: 3779

Component: Driver

Fix: Possible error generating driver for array of structs containing pointers to different memory areas.

CR Number: 3778

Component: Driver

Fix: Fixed generating casts for Tasking TricoreVX . This compiler does not allow memory modifiers in casts.

CR Number: 3777

Component: Evaluation

Fix: Error in evaluation of floats that have actual value *unknown*.

CR Number: 3776

Component: Driver

Fix: Possible error in driver for union containing structs that contain multiple structs of the same type.

CR Number: 3775

Component: OBT with HiTOP

Fix: Support for static variables for Original Binary Test on HiTop.

CR Number: 3774

Component: Word Report

Fix: Problem with Word 2010 fixed, scenario description for component tests added.



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Addressed In: 2.9.738 (6 item(s))

CR Number: 3763

Component: IAR for STMicroware STM8

Fix: New support added for IAR for STMicroelectronics STM8 debugger/compiler.

CR Number: 3762

Component: Parser

Fix: Detecting passdirection of anonymous inner structs.

CR Number: 3761

Component: Driver

Fix: Type of current testcase and teststep in usercode file.

CR Number: 3760

Component: Driver

Fix: Generating slave function for anonymous inner structs.

CR Number: 3759

Component: Driver

Fix: Generating memory modifier in cast to array with two or more dimensions.



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CR Number: 3758

Component: Driver

Fix: Generating memory modifier for functionpointers for Cosmic compiler.

Addressed In: 2.9.737 (12 item(s))

CR Number: 3745

Component: Driver

Fix: Problem with high optimizing compiler, removing communication function for Trace32.

CR Number: 3741

Component: Defines

Fix: Possible wrong define value computation for long long constants.

CR Number: 3740

Component: RadiSys Hawk Debugger/Microware Ultra C compiler

Fix: New support added for RadiSys Hawk Debugger and Microware Ultra C compiler

CR Number: 3739

Component: PLS/UDE

Fix: New support added for PLS/UDE TI TMS 570 compiler/debugger.



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CR Number: 3738

Component: TIE

Fix: Missing entry in popup menu "Don't create advanced stub".

CR Number: 3737

Component: Driver

Fix: Error in generating memory modifiers for arrays and function pointers.

CR Number: 3736

Component: EXP

Fix: Termination problem when running from tessycmd without a running Tessy.

CR Number: 3735

Component: Tessy / Conversion

Fix: Possible error with enum constants when converting from 2.5 to 2.9.

CR Number: 3734

Component: SCE

Fix: Lowercase conversion bug.

CR Number: 3733

Component: Tessy

Fix: Support for Keil ARM RVDS (C++) added



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CR Number: 3728

Component: TDE

Fix: Test object specific user code declarations and definitions are lost after synchronization with Tessy from CTE.

CR Number: 3717

Component: IDA

Fix: Possible los of test case prolog/epilog after reuse operation.

Addressed In: 2.9.734 (10 item(s))

CR Number: 3713

Component: ASAP

Fix: If a FORMAT is specified within a MEASUREMENT or CHARACTERISTIC section this format is used for conversion operations.

CR Number: 3710

Component: Altera NIOS II

Fix: New support added for Altera NIOS II compiler/debugger.

CR Number: 3701

Component: Parser

Fix: Implemented analyzation of pragmas for TI TMSx70.



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CR Number: 3698

Component: ASAP

Fix: Fixed a conversion error if the interface object is a floating point number.

CR Number: 3697

Component: Tessy

Fix: Test step repeat count is lost during copy & paste operation.

CR Number: 3696

Component: TDE

Fix: Added range check against min and max values for objects with ASAP information.

CR Number: 3695

Component: Parser

Fix: Implemented analyzation of pragmas for Metrowerks HCS12(X).

CR Number: 3694

Component: Driver

Fix: Possible crash with large amounts of test steps while generating the test driver.

CR Number: 3692

Component: UDE

Fix: Always use given workspace and enable UDE GUI, if a workspace is provided within TEE attributes.



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CR Number: 3659

Component: Import

Fix: The values "true" and "false" are recognized for _Bool types during import.

Addressed In: 2.9.733 (8 item(s))

CR Number: 3688

Component: Original Binary Test

Fix: TDE crash during test data export for Original Binary Test

CR Number: 3685

Component: ASAP

Fix: Added support for ASAP TAB_VERB conversion.

CR Number: 3679

Component: Driver

Fix: Possible error with pointers targeting components of dynamic structs.

CR Number: 3678

Component: Driver

Fix: Generating memory modifier for function pointers.



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CR Number: 3677

Component: TRACE32

Fix: Updated TRACE32 interface to support current versions.

CR Number: 3674

Component: Tasking VX C166

Fix: Added support for new keywords of compiler version 2.4

CR Number: 3672

Component: Tessy

Fix: Loss of test object specific attributes after reuse.

CR Number: 3670

Component: C++ Support

Fix: Added support for inner classes. [e.g. class foo { class bar { void method(); }; void method();};]

Addressed In: 2.9.732 (3 item(s))

CR Number: 3664

Component: Driver

Fix: Calculating memory modifier for structure components.



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CR Number: 3663

Component: Driver

Fix: Error in cast of pointer to different memory area for parameter of Advanced Stub functions.

CR Number: 3661

Component: Tessy Command

Fix: Added facility to specify a project root together with a pdb database. The given project root will be assigned permanently to the given database.

Addressed In: 2.9.731 (5 item(s))

CR Number: 3657

Component: Driver

Fix: Error generating driver when a pointer inside an array of structs targets the array itself.

CR Number: 3652

Component: SCE

Fix: New view for improved copying of scenario content: copy of one scenario into multiple other scenarios is now possible.

CR Number: 3651

Component: SCE

Fix: Actions in scenario view are now selection sensitive. Deletion of empty, subsumed time steps is now possible.



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CR Number: 3650

Component: SCE

Fix: Empty time steps at the end of a scenario will not be removed anymore.

CR Number: 3611

Component: SCE

Fix: Copy & Paste of multiple time step elements fixed

Addressed In: 2.9.730 (7 item(s))

CR Number: 3641

Component: IDA

Fix: Fixed call trace problem with called functions if the scope changes from global to extern.

CR Number: 3639

Component: Import

Fix: Possible crash when importing from Excel with call traces.

CR Number: 3633

Component: Driver

Fix: Fixed generating stub Function prototype for Keil C166.



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CR Number: 3632

Component: Driver

Fix: Missing commandline parameter DEBUG in assembler makefile command for Keil C51.

CR Number: 3630

Component: Usercode

Fix: Testdriver generation crashed if user code fragments (prolog/epilog/declaration/definitions) greater 1024 bytes are used.

CR Number: 3628

Component: Parser

Fix: Added support for ISO C99 compound literals. [e.g. *pointer = (struct S) {1,2,3};]

CR Number: 1904

Component: Driver

Fix: Pointers and dynamic objects will work corectly in all memory areas (far, near, banked etc.).

Addressed In: 2.9.729 (10 item(s))

CR Number: 3616

Component: Parser

Fix: Possible problem with identifier names starting with asm when scanning the asm keyword.



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CR Number: 3615

Component: TI CCSv4 / TMS570 and TMS320C6000

Fix: New feature: CCSv4 supported for TMS570 (e.g. CortexR4) and TMS320C6000

CR Number: 3613

Component: Driver

Fix: Fixed generating function prototype for functions returning a const value.

CR Number: 3612

Component: Parser

Fix: Added support for `__asm` keyword for GNU compilers.

CR Number: 3609

Component: Defines

Fix: Problem processing floating point values in defines [e.g. `#define VALUE -9.81`]

CR Number: 3608

Component: Defines

Fix: Added support for binary constants in defines [e.g. `#define MASK 0b00000001`]

CR Number: 3604

Component: TDE

Fix: Decimal Key on Numpad is not recognized.



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CR Number: 3602

Component: TDE

Fix: Prevent Defines Combobox from opening for Values imported from CTE.

CR Number: 3601

Component: TDE

Fix: Define values from CTE are corrupted after copy/paste complete testcase.

CR Number: 3600

Component: Batch Report

Fix: Synchronization problem between signal picture generator and execution controller.

Addressed In: 2.9.728 (7 item(s))

CR Number: 3593

Component: Parser / IAR ARM

Fix: Added support for `_Pragma()` keyword for IAR ARM.

CR Number: 3586

Component: TI Code Composer Studio 4

Fix: Support for TI Code Composer Studio 4 added.



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CR Number: 3584

Component: Batch Report

Fix: Sometimes missing result plots in batch reports.

CR Number: 3581

Component: IDA

Fix: Added a facility to execute test data assignment in an own process per testobject to avoid crashes due to memory problems. For more information refer to the application note Committing your changes in IDA.

CR Number: 3577

Component: IDB

Fix: Missing type qualifiers for bit variables.

CR Number: 3575

Component: Driver

Fix: Support for #pragma asm/endasm sections in user sources for Keil C51 compiler.

CR Number: 3574

Component: Instrumenter

Fix: Potentially wrong MCC and MC/DC decision tables in conjunction with negation operators and complex decision statements.



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Addressed In: 2.9.727 (7 item(s))

CR Number: 3562

Component: IDB

Fix: Reuse did not work when a function is added or removed.

CR Number: 3561

Component: TDE

Fix: actual to expected only works for two teststeps.

CR Number: 3560

Component: TDE

Fix: Generate teststep dialog can only be used once.

CR Number: 3559

Component: TDE

Fix: CTE flag was copied on copy/paste complete testcase (Alt-C/Alt-V).

CR Number: 3558

Component: Tessy

Fix: Usercode was not copied when copying testcase in testcasewindow.

CR Number: 3557

Component: Driver

Fix: Transferring positive values to slave starting with '+' (e.g. '+42').



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CR Number: 3556
Component: Instrumenter
Fix: Error instrumenting #pragma asm.

Addressed In: 2.9.726 (14 item(s))

CR Number: 3547
Component: Driver
Fix: Generate char instead of bit as default return value type in stub functions for Hitech PIC 18.

CR Number: 3546
Component: IDA
Fix: Reuse of modules using aliasnames.

CR Number: 3545
Component: Green Hills / ARM
Fix: Added support for Green Hills ARM / Multi 2000.

CR Number: 3544
Component: ASAP
Fix: Test data import failed if no explicit 'Conversion Parameter' is set.



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CR Number: 3532

Component: IDB

Fix: Invalid calltrace if compressed test data size equals uncompressed test data size.

CR Number: 3531

Component: Driver/C++

Fix: Generate .cpp file type for customer files in C++ modules.

CR Number: 3530

Component: Driver/C++

Fix: Generate typedef for TESSY_CPlusPlus_Result enum.

CR Number: 3529

Component: IDB

Fix: Added support for `asm(...);` statements for HI-TECH PIC-18.

CR Number: 3528

Component: IDA

Fix: Fixed crash when updating recursive called functions.

CR Number: 3527

Component: IDB

Fix: Handle possible parser crash if unable to recover from parse error.



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CR Number: 3526

Component: IDB

Fix: Possible invalid call reference of variable, after changing source without reuse.

CR Number: 3518

Component: HI-TECH PIC-18

Fix: The `asm(...);` statement is now supported for HI-TECH PIC-18

CR Number: 3515

Component: Tessy

Fix: Don't complain about missing files when creating module archives with tar version < 1.13.19

CR Number: 3509

Component: Tessy

Fix: Support if the users APPDATA environment variable points to an UNC path. [e.g. `\\server\folder`]

Addressed In: 2.9.24 (8 item(s))

CR Number: 3511

Component: MPLAB

Fix: Communication problem between Tessy master and MPLAB target handler



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CR Number: 3507

Component: GNU ARM/Cortex

Fix: Added support for ARM/Cortex controller and HiTOP debugger.

CR Number: 3506

Component: Parser

Fix: Added support for GNU specific keywords to GNU Arm, GNU Hitex Arm, and GNU Hitex Cortex.

CR Number: 3505

Component: Driver

Fix: Saving timer result file.

CR Number: 3504

Component: Instrumenter

Fix: Test execution may fail with instrumentation if ternary conditions like ' $x = a ? b : (c || d);$ ' are used.

CR Number: 3503

Component: TDE

Fix: Copy and paste for manually entered pointer targets.

CR Number: 3502

Component: Keil μ Vision

Fix: Initialization problem: Failed to read address of `ts_user_callback`.



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CR Number: 3501

Component: Tessy

Fix: A false archiv corrupted warning appears when restoring a module archiv created with Tessy version 2.9.

Addressed In: 2.9.23 (12 item(s))

CR Number: 3499

Component: Report

Fix: Problem with HTML report and Firefox browser.

CR Number: 3498

Component: TIE

Fix: User set array size (in case of unknown array size) was not saved.

CR Number: 3497

Component: Parser

Fix: Parse error on #pragma endasm when '(' directly followed endasm.

CR Number: 3496

Component: Import

Fix: Allow importing character values (e.g. 'a') as hexadecimal values.

CR Number: 3495

Component: Import

Fix: Setting passing directions of advanced stub variables during import.



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CR Number: 3494

Component: ASAP

Fix: New tags supported for ASAP version 1.4.

CR Number: 3493

Component: Coverage Viewer

Fix: Display problem with large flowcharts.

CR Number: 3491

Component: Tasking XC166 VX / winIDEA

Fix: Support for Tasking XC166 VX / winIDEA added.

CR Number: 3487

Component: Driver

Fix: Generating variable definitions for arrays and pointers using typedef names with user includes feature enabled.

CR Number: 3486

Component: Driver

Fix: Generating function declarations with memory modifiers for Keil XC16x.

CR Number: 3485

Component: IDA

Fix: New variables used in stubbed local functions (for unit test) and those used within component functions (for component test) were not initially set to IRRELEVANT after reuse operation.



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CR Number: 3484

Component: Parser

Fix: Added support for C99 simple loop initial declaration. [e.g. for (int i = 0; i < 10; i++) ...]

Addressed In: 2.9.22 (7 item(s))

CR Number: 3476

Component: TI TMS320 / CCS3

Fix: Slave call was not executed, resulting in CCS not being started for test execution.

CR Number: 3475

Component: IDA

Fix: Possible error with passdirection of Advanced Stub variables after reuse.

CR Number: 3474

Component: IDA

Fix: Defines used in test data were converted to their numerical values after reuse.

CR Number: 3473

Component: TDE

Fix: Error saving pointer target NULL when 'NULL' was entered manually within TDE.



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CR Number: 3472

Component: TDE

Fix: Copy/paste of complete test steps within TDE did not copy anything.

CR Number: 3471

Component: Instrumenter

Fix: Wrong MC/DC instrumentation if an expression contains multiple character constants. [e.g. (a <= '0' && b >= '9')]

CR Number: 3461

Component: Parser

Fix: The parser fails if the identifier being initialized is used within the initialisation statement itself.

Addressed In: 2.9.21 (10 item(s))

CR Number: 3458

Component: IDA

Fix: Corrupted interface database after a reuse operation if static local variables are enabled and present.

CR Number: 3457

Component: IDA

Fix: Possible problem with union component selector after reuse operation.



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CR Number: 3453
Component: Test Evaluation
Fix: Evaluation of dynamic arrays.

CR Number: 3452
Component: Tessy / Conversion
Fix: Error in passdirections of variables with unknown passdirection after converting Projects from Tessy 2.5.

CR Number: 3451
Component: Driver
Fix: Reactivated HIL test support.

CR Number: 3450
Component: Calltrace
Fix: Wrong calltrace with removed functions after reuse operation.

CR Number: 3449
Component: Parser
Fix: Invalid interface database if compiler intrinsic functions are used.

CR Number: 3444
Component: Tessy Main
Fix: Unwanted GUI controls on testobject properties tabs.



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CR Number: 3443

Component: Report

Fix: Added configuration file to test report.

CR Number: 3440

Component: TDE

Fix: Corrupted return type for external functions without prototype.

Addressed In: 2.9.19 (4 item(s))

CR Number: 3439

Component: Driver

Fix: Wrong scenario code if there is only one timestep between last Timestep and End of Scenario.

CR Number: 3416

Component: Backup

Fix: Missing IDB/TDB files within module backup (*.tmb) files causing the restore of modules to fail.

CR Number: 3414

Component: Export

Fix: Possible crash when exporting empty arrays



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CR Number: 3412

Component: Coverage Viewer

Fix: Empty flow pane if a ternary statement is used within a switch selector.

Addressed In: 2.9.18 (7 item(s))

CR Number: 3405

Component: Tessy Command

Fix: Error in building the logfile name if an absolute path is given with the -log option.

CR Number: 3399

Component: Tessy / Conversion

Fix: Stub code and test data for functions with long names get lost during database conversion from 2.6 to 2.9.

CR Number: 3398

Component: IDA

Fix: Teststep call count gets lost during reuse operation.

CR Number: 3397

Component: IDA

Fix: Checking of file access privileges before reuse operation corrected (this caused problems on windows 2000).



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CR Number: 3395

Component: Instrumenter

Fix: The instrumenter crashes if a ternary statement is used within a switch selector.

CR Number: 3394

Component: IDB

Fix: Recursively called test objects appeared as local functions in TIE

CR Number: 3393

Component: Instrumenter

Fix: Wrong positions in dataflow for Freescale MPC55xx compiler.

Addressed In: 2.9.17 (7 item(s))

CR Number: 3386

Component: Parser

Fix: New feature: Support of C99 feature to mix declarations and statements within compound statements.

CR Number: 3385

Component: Parser

Fix: New feature: Support of C99 feature to use designators in initializers.



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CR Number: 3384

Component: IDB

Fix: New feature: Enum base types for bitfields are now supported.

CR Number: 3383

Component: Coverage Measurement

Fix: New feature: Enhanced coverage measurement now supports the ternary "?" operator for branch and decision coverage. Also boolean expressions in statements are now supported for MC/DC coverage.

CR Number: 3381

Component: Database Backup

Fix: New feature: Easy saving and restoring of TMB file backups for all modules/projects of a PDB database.

CR Number: 3258

Component: IDB / TDB

Fix: New feature: Optimized interface database and test database.

CR Number: 3257

Component: Component Test

Fix: New feature: Time based component testing.



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Addressed In: 2.9.x (beta) (35 item(s))

CR Number: 3382

Component: TDE/Evaluation

Fix: Wrong test result if ASAP values are is used in return values.

CR Number: 3377

Component: pdb32

Fix: pdb32 failed to extract compressed module archives when started from a shell without Tessy environment.

CR Number: 3372

Component: Instrumenter

Fix: Invalid flow generation if a call of a function to instrument is seen before the function definition.

CR Number: 3371

Component: Instrumenter

Fix: Generation of invalid code for initializations with braces. [e.g. int array[] = {1,2,3};]

CR Number: 3370

Component: Tessy / Conversion

Fix: Testobject specific usercode declarations and definitions get lost during conversion from 2.6 to 2.9.



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CR Number: 3369

Component: Coverage Viewer

Fix: Return symbol will show the correct color for C2 coverage

CR Number: 3366

Component: Instrumenter

Fix: An invalid flow file is generated if the last statement of a statement list is an array declaration with initialization.

CR Number: 3365

Component: Instrumenter

Fix: Instrumenter crash if a condition consist of more than MAX_MCC_ATOMS or MAX_MCDC_ATOMS.

CR Number: 3346

Component: Instrumenter

Fix: New feature: C1/C2 coverage supports logical operations in assignment expressions and parameter lists.

CR Number: 3345

Component: Instrumenter

Fix: New feature: C1/C2 coverage supports ternary operations.

CR Number: 3337

Component: Driver

Fix: Declaration of irrelevant variables in Component Test removed



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CR Number: 3333

Component: SCE

Fix: Custom Scenario Stepsize lost after reuse.

CR Number: 3299

Component: IDA

Fix: Missing testobject comment after restoring a module with subsequent reuse.

CR Number: 3298

Component: Driver

Fix: Testdriver generation fails if defines are used within usercode.

CR Number: 3297

Component: CTE / Tessy

Fix: Missing synchronization between Tessy and CTE after test execution.

CR Number: 3296

Component: CTE / Tessy

Fix: Test data get lost after a reuse and later synchronization with CTE.

CR Number: 3295

Component: Driver

Fix: Erroneous declaration of return type for far functions.



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CR Number: 3294

Component: CV

Fix: Wrong presentation of while loops containing a break statement.

CR Number: 3293

Component: Instrumenter

Fix: The instrument generates defective code if in an if statement without block braces and a single return statement is used inside a switch statement.

CR Number: 3291

Component: CV

Fix: Update scenario information in coverage viewer after test execution.

CR Number: 3289

Component: TDE

Fix: Define values gets lost when entered within TDE.

CR Number: 3288

Component: EXP

Fix: Error during test execution if 'Testcase separately' is selected.

CR Number: 3286

Component: SCE

Fix: Disabled editing for unused stubfunctions.



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CR Number: 3285

Component: CV

Fix: Rendering problem with large C1 counters.

CR Number: 3280

Component: SCE/Tessy

Fix: Copy & paste of scenario code in SCE and in Tessy when copying testcases.

CR Number: 3279

Component: Export

Fix: Insensitive data selection radioboxes when exporting from an executed testobject.

CR Number: 3278

Component: Test Evaluation

Fix: Possible wrong test results for static local variables within inner scopes and expected value *ignore*.

CR Number: 3273

Component: Parser

Fix: The parser failed on cast expressions with pointer dereferences to absolute addresses within initializers [e.g. `int *p = {&*(S*) 0xAFFE}.u;`]

CR Number: 3263

Component: TE

Fix: The TE Process crashes if a queued command terminates with an error.



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CR Number: 3262

Component: Analog Devices Blackfin

Fix: Added support for ``_Pragma()`` for Analog Devices Blackfin.

CR Number: 3261

Component: Tasking Tricore / Tasking Tricore VX

Fix: Added support for arbitrary expressions within ``_at (...)`` for Tasking Tricore/Tasking Tricore VX

CR Number: 3260

Component: Parser/Freescale MPC55XX

Fix: Added support for ``__declspec (...)``, ``asm void foo ()``, and ``asm {nop; nop;...}`` for Freescale MPC55XX compiler.

CR Number: 3177

Component: Driver

Fix: Avoid crash when a pointer target is invalid after reuse.

CR Number: 3174

Component: Driver

Fix: Possible error in driver, when a static local variable is used as pointer target.

CR Number: 3047

Component: Parser

Fix: The parser fails if typedef names are used as identifiers.



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Addressed In: 2.6.x (100 item(s))

CR Number: 3413

Component: Keil μ Vision

Fix: Synchronization problem fixed when running on target boards.
Execution speed enhanced.

CR Number: 3411

Component: dsPIC/PIC24

Fix: Support for `__asm__` keyword for dsPIC/PIC24.

CR Number: 3410

Component: Defines

Fix: Possible empty define list.

CR Number: 3409

Component: Parser

Fix: Allow optional empty structs. (e.g. `struct foo {};`)

CR Number: 3408

Component: Export

Fix: Wrong repeat count association.



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CR Number: 3407
Component: Export
Fix: Export selected testcases correctly.

CR Number: 3402
Component: Instrumenter
Fix: Static local enums variables are not instrumented which yields to wrong test results.

CR Number: 3401
Component: Instrumenter
Fix: Invalid generated code if the condition in a for statement contains no logical operators but is surrounded with parenthesis.

CR Number: 3392
Component: IDA
Fix: Wrong automatic assignment for struct components by name, if a member with the same name appears in inner structure.

CR Number: 3391
Component: Parser
Fix: support #pragma directives for Tasking C166, IAR 78000 and Cosmic HC11 compiler.

CR Number: 3387
Component: Driver
Fix: Wrong cast in slave for static pointer to array of arrays.



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CR Number: 3380
Component: Target MPLAB / C30 (PIC24, dsPIC)
Fix: Support for MPLAB / C30 (PIC24, dsPIC)

CR Number: 3373
Component: Driver
Fix: Declaration of struct/union when User Includes are enabled

CR Number: 3363
Component: Import
Fix: Imported test data with plot mode TC were imported as plot mode TS erroneously.

CR Number: 3358
Component: Parser
Fix: Allowed empty struct declarations.

CR Number: 3343
Component: Driver
Fix: Possible wrong declaration when using original user includes.

CR Number: 3342
Component: Parser
Fix: Missing defines when a Module with no defines is reopened with new defines but without reuse



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Release Notes



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CR Number: 3340

Component: Tessy Command

Fix: Argument parsing fails if tessycmd.exe is executed without '.exe'.

CR Number: 3339

Component: Tessy Main

Fix: Delete temporary TessySupport directory, if it contains write protected files.

CR Number: 3338

Component: Tessy Main

Fix: Setting Linker Options in Module Properties Dialog when changing Environment

CR Number: 3277

Component: Parser

Fix: Resolving variables in recursively called functions correctly.

CR Number: 3276

Component: Driver

Fix: Possible stackoverflow when generating test driver on large interfaces.

CR Number: 3275

Component: Tessy

Fix: Support for S12X for ZAP added.



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CR Number: 3274

Component: Tessy

Fix: Support for Metrowerks MPC55XX for winIDEA added.

CR Number: 3272

Component: Report

Fix: Missing pictures for plotmode after moving testcases in CTE.

CR Number: 3271

Component: Parser/Microchip PIC18

Fix: The parser failed if `_asm / _endasm` sections are used.

CR Number: 3259

Component: Parser/IAR AVR

Fix: Added support for `__notreturn`` keyword for IAR AVR compiler.

CR Number: 3189

Component: Freescale MPC / TRACE32

Fix: New support added for Freescale MPC compiler.

CR Number: 3188

Component: Tessy Main

Fix: Within the module properties, negative number values of attributes were displayed incorrectly.



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CR Number: 3187

Component: TDE

Fix: Evaluation of unsigned 64 bit integers in difference eval mode (e.g. '+2')

CR Number: 3184

Component: Instrumenter

Fix: The instrumenter generates defective code if a structure with bitfields is declared inside a function body.

CR Number: 3172

Component: Keil/C51 winIDEA

Fix: Missing define for TS_BUFFER_SIZE within makefiles added.

CR Number: 3169

Component: IDB

Fix: Depending on the order of occurrence within the source file(s), defines referencing other defines were not available within Tessy.

CR Number: 3167

Component: Instrumenter

Fix: The instrument enters an endless loop if the condition starts not on the same line as the for, while, or if keyword.

CR Number: 3166

Component: Import

Fix: Absolute addresses (e.g. 0x1234) assigned to pointers were erroneously converted to dynamic objects during import operation.



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CR Number: 3164

Component: Import/Export

Fix: Import of arrays has been optimized.

CR Number: 3151

Component: NEC 78K

Fix: New support for the NEC 78K compiler and NEC SM/ICD debugger added.

CR Number: 3150

Component: Hightec/Tricore

Fix: Support `_bit` as type keyword.

CR Number: 3147

Component: UCE

Fix: Provided an opportunity (in `tessy.conf`) to specify additional options to the java process when starting the UCE.

CR Number: 3128

Component: Parser

Fix: Problem with duplicate variables when defined in more than one source.

CR Number: 3125

Component: Cosmic HC11

Fix: Support for Cosmic compiler for HC11 controller added.



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CR Number: 3124
Component: IAR ARM / winIDEA
Fix: Support for winIDEA debugger added.

CR Number: 3122
Component: Parser
Fix: Allow redefinition of global variables.

CR Number: 3119
Component: Tasking C166 VX
Fix: The `__asm (...);` statement is now supported for TASKING C166 VX.

CR Number: 3118
Component: IDB
Fix: The `#defines` parser crashes if the divisor in a division expression expands to zero.

CR Number: 3116
Component: TIE
Fix: Set passing direction of fill bits in bitfields to irrelevant, when creating variables for advanced stubs.

CR Number: 3115
Component: Parser/ARM RVDS
Fix: The `__restrict` keyword is now supported for ARM RVDS.



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CR Number: 3114

Component: Parser

Fix: The parser failed if an abstract function pointer with elipses parameter list is used as parameter in declarations. [e.g. `extern int foo (void (*) (char *, ...));`]

CR Number: 3112

Component: Import

Fix: Import failed if local static variables are used as pointer targets.

CR Number: 3110

Component: Batch Test

Fix: Testcase and coverage statistics on module and project level have been added to the XML result file of the batch test.

CR Number: 3107

Component: Export

Fix: Problems with invalid filenames in Import/Export Dialog fixed.

CR Number: 3106

Component: TDE

Fix: Assigning pointers to dynamic objects created from advanced stub objects is possible now.

CR Number: 3084

Component: IDB

Fix: Pragma directives like `"#pragma pack 5"` (without paranthesis around the number) caused wrong declarations within the test driver code.



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CR Number: 3083

Component: Instrumenter

Fix: The instrumenter could crash in case of single statements/declarations longer than 1024 bytes.

CR Number: 3078

Component: IDA

Fix: Hidden variables (used by stubbed local functions and therefore IRRELEVANT) re-appeared within TDE after a reuse operation.

CR Number: 3076

Component: IDB

Fix: The recognition of #define values usable as test data has been enhanced. Arithmetic operations and casts are now handled by the scanner for #defines.

CR Number: 3073

Component: IAR/dsPIC

Fix: New support added for IAR/dsPIC compiler.

CR Number: 3071

Component: Driver

Fix: The declaration of stub function call count variables (for usage with TS_CALL_COUNT) were incompatible with the definition of those variables, if the default size (8) was changed to 16 or 32.



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CR Number: 3068

Component: Driver

Fix: Type modifiers like 'far' for return types of function pointers are now generated correctly.

CR Number: 3067

Component: Driver

Fix: Function keywords like 'far' are now generated also for void stub functions.

CR Number: 3064

Component: IAR/ARM

Fix: New support added for IAR ARM V5.x compiler and C-SPY debugger

CR Number: 3063

Component: Instrumenter/C++

Fix: Instrumentation fails if class and method names longer than the maximum testobject name size are used.

CR Number: 3062

Component: Instrumenter/C++

Fix: Instrumentation fails if case labels qualified with namespace names are used.



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CR Number: 3059

Component: Tessy Main

Fix: New feature: The -exec commandline option has been removed from tessy32.exe. Use tessycmd.exe to execute batch scripts from the commandline.

CR Number: 3056

Component: IDB/C++

Fix: Opening modules with class and method names longer than the maximum testobject name size failes.

CR Number: 3054

Component: Batch

Fix: New feature: Analysing the interface during batchtests is now optional.

CR Number: 3053

Component: CTE

Fix: Failed to read an exported CTA file if compositions are used as children of classifications or classes.

CR Number: 3052

Component: IDB/C++

Fix: Added exclude list attribute to hide specific methods from testobject list.



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CR Number: 3051

Component: Tessy Main

Fix: Wrong behaviour when opening a database with an attached non-existing configuration file.

CR Number: 3042

Component: TASKING C166VX / TRACE32

Fix: Added missing makefile template for TASKING C166VX / TRACE32.

CR Number: 3041

Component: IDB

Fix: In very rare situations the variable list for CTE and UCE may be empty or wrong.

CR Number: 3039

Component: GNU ARM Compiler

Fix: Problem with incompatible Cygwin DLL versions fixed.

CR Number: 3037

Component: Coverage Viewer

Fix: In case of a source file without any included header files: When selecting flowchart symbols, the corresponding selection within the source file was displaced by one line.

CR Number: 3036

Component: EXP

Fix: Delete read-only files from Tessy Testarea.



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CR Number: 3035

Component: EXP

Fix: Delete read-only files from Tessy testarea directory before executing tests.

CR Number: 3034

Component: Instrumenter

Fix: In the MCC, MC/DC reports the 'Date of Instrumentation' was one month in the past.

CR Number: 3033

Component: IDA

Fix: IDA may crash at reuse if unions containing anonymous structures are used.

CR Number: 3032

Component: Parser/ARM RVDS

Fix: Parsing the module fails if math.h is included.

CR Number: 3031

Component: ARM RVDS

Fix: Added float support for ARM RVDS compiler.



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CR Number: 3030

Component: Tessy

Fix: The "Create New Database" dialog don't closes when the OK button is pressed.

CR Number: 3029

Component: Driver

Fix: Generating correct names for function pointer arrays.

CR Number: 3028

Component: Driver

Fix: Code generation for local static bits.

CR Number: 3026

Component: IDB

Fix: If inline methods with the same name are used in more than one source opening the module failes.

CR Number: 3024

Component: TDE

Fix: Enhanced usability for entering define values.

CR Number: 3023

Component: IDB

Fix: Interface analysis ends up in an infinite loop if '\ ' line continuation within strings is used in sources of C++ modules.



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CR Number: 3010

Component: Instrumenter

Fix: Instrumentation failed if very large statements (> 1024 bytes) are used.

CR Number: 3009

Component: IDB

Fix: The interface parser failed if static local variables within inner scopes are used.

CR Number: 2990

Component: Setup

Fix: Configuration files were not merged from previous installed Tessy versions.

CR Number: 2985

Component: Renesas SH/TRACE32

Fix: New support added for Renesas SH compiler and TRACE32 debugger.

CR Number: 2984

Component: Setup

Fix: The Cygwin version 1.5.25 delivered with Tessy now supports Windows Vista.

CR Number: 2973

Component: TEE

Fix: New feature: The new normal/expert mode optionally hides internal information from being displayed for normal users.



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CR Number: 2972

Component: Parser/IDB

Fix: New feature: The improved interface database allows resetting the passing direction of variables to the initial findings, recognizes variables used within initializer statements and masks out variables used in functions to be stubbed for the test.

CR Number: 2971

Component: CTE

Fix: The return value of a test object is now available as output variable within the variables view of the CTE.

CR Number: 2970

Component: TDE

Fix: New feature: Individual bits of a variable can be checked during the evaluation for a test case result.

CR Number: 2969

Component: TDE

Fix: New feature: Tessy allows using #defines of constant values as symbolic test data.

CR Number: 2968

Component: C++ Support

Fix: New feature: Tessy allows testing of C++ modules for certain target compilers supporting the C++ language.



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CR Number: 2967

Component: Report

Fix: New feature: The HTML reports provide graphical plots of result data.

CR Number: 2966

Component: TDE

Fix: New feature: The TDE provides automatic test data generation based on rules for combination of input/output variables.

CR Number: 2965

Component: Coverage Viewer (CV)

Fix: New feature: The Coverage Viewer (CV) graphically displays branch and condition coverage information.

CR Number: 2885

Component: Tessy

Fix: Changed format of -exec parameters for tessy32: -exec [--log log-file] <script-file> [pdb-file]

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