



# Tessy 2.6

## Release Notes



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**These release notes for Tessy v2.6.18 contain a summary of the changes which were made since the major release of Tessy v2.5.**

Addressed In: 2.6.18 (11 item(s))

---

**CR Number:** 3064

**Component:** IAR/ARM

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

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**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.

---

**CR Number:** 3059

**Component:** Tessy Main

**Fix:** New feature: The -exec commandline option has been removed from tassy32.exe. Use tassycmd.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 fails.



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**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.

---

**CR Number:** 3051

**Component:** Tessy Main

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

---

**CR Number:** 3046

**Component:** RVDS ARM /  $\mu$ Vision

**Fix:** New support added for ARM RVDS compiler and  $\mu$ Vision debugger.

---

**CR Number:** 3029

**Component:** Driver

**Fix:** Generating correct names for function pointer arrays.



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## Addressed In: 2.6.17 (3 item(s))

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**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:** 3036

**Component:** EXP

**Fix:** Delete read-only files from Tessy Testarea.

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---

## Addressed In: 2.6.16 (4 item(s))

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**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.

---



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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.

---

### Addressed In: 2.6.15 (4 item(s))

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**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.

---

### Addressed In: 2.6.14 (5 item(s))

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**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.

---

**CR Number:** 3010

**Component:** Instrumenter

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

---



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**CR Number:** 3009

**Component:** IDB

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

---

### Addressed In: 2.6.11 (1 item(s))

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**CR Number:** 2990

**Component:** Setup

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

---

### Addressed In: 2.6.10 (2 item(s))

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**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.

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### Addressed In: 2.6.9 (10 item(s))

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**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.

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**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]

---

## Addressed In: 2.5.x (101 item(s))

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**CR Number:** 3000

**Component:** Parser

**Fix:** The parser fails if function prototypes with register masks are used for Keil C166. [e.g. extern bit get\_bit (void) @ 0x0070;]



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---

**CR Number:** 2999

**Component:** Parser

**Fix:** The parser fails if typequalifier are used with function pointers. [e.g. `typedef int (far * FP) ();`]

---

**CR Number:** 2998

**Component:** Parser

**Fix:** The parser fails on cast expressions without parenthesis. [e.g. `(int *) p += 1;`]

---

**CR Number:** 2997

**Component:** Parser

**Fix:** The parser fails if untyped parameters are used in function definitions. [e.g. `foo (a,b,c) {}`]

---

**CR Number:** 2986

**Component:** Driver

**Fix:** Declare `TS_TESTOBJECT_RETURN` as const if testobject return is const

---

**CR Number:** 2983

**Component:** Instrumenter

**Fix:** Support for `__data20` keyword for IAR MSP430 added

---

**CR Number:** 2982

**Component:** Parser

**Fix:** Support for asm functions for Greenhills V850 was added



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**CR Number:** 2981  
**Component:** Parser  
**Fix:** Analyzation of pragma pack()

---

**CR Number:** 2980  
**Component:** Parser  
**Fix:** Support for \_\_bit datatype for Tasking Tricore VX added.

---

**CR Number:** 2891  
**Component:** CCS3/TMS230C6x  
**Fix:** New support for TI/Code Composer Studio 3 / TMS320c6x added.

---

**CR Number:** 2886  
**Component:** HighTec/TriCore  
**Fix:** Allow \_\_volatile\_\_ keyword for inline assembler: \_\_asm\_\_  
\_\_volatile\_\_("<assembler statements>"); Also allow \_\_asm\_\_() on file  
level as for assembler macro definitions.

---

**CR Number:** 2882  
**Component:** IDA  
**Fix:** Calltraces may get corrupted in very complex reuse situations.

---

**CR Number:** 2881  
**Component:** Parser / Driver  
**Fix:** keyword \_\_data20 is supported for IAR MSP430



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**CR Number:** 2879

**Component:** Driver

**Fix:** C2 coverage for testobjects and called functions with names longer than 51 characters is now available.

---

**CR Number:** 2877

**Component:** Parser

**Fix:** #pragma keyword is now supported for IAR M16C V3.10

---

**CR Number:** 2875

**Component:** Tessy

**Fix:** Supportfile creation fails if a database specific configuration is used in conjunction with a projectroot and the configuration file is located below the project root.

---

**CR Number:** 2873

**Component:** Tessy

**Fix:** Display and edit problems with multiline attributes.

---

**CR Number:** 2863

**Component:** IDBMake

**Fix:** When using write protected source files with type other than '.c', reanalyzation of the interface fails.

---

**CR Number:** 2861

**Component:** TDE

**Fix:** Testdatabase can now store values for array indices larger than 32767.



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**CR Number:** 2856

**Component:** Driver

**Fix:** Error in driver for 16 bit targets and array with more than 32767 elements

---

**CR Number:** 2855

**Component:** Keil/ $\mu$ Vision/C166

**Fix:** New Keil  $\mu$ Vision UVSC interface support added for C166 (for  $\mu$ Vision 3.51 and later)

---

**CR Number:** 2854

**Component:** Windriver Workbench 3.0

**Fix:** Windriver Workbench 3.0 support added.

---

**CR Number:** 2853

**Component:** TASKING Tricore VX 3.0

**Fix:** New version 3.0 of TASKING VX Tricore compiler is now supported for TRACE32.

---

**CR Number:** 2846

**Component:** Cosmic/C51

**Fix:** Treat 'sfr' variables as unsigned char.

---

**CR Number:** 2845

**Component:** Instrumenter/TI TMS320

**Fix:** Instrumentation fails for TI TMS320 if the interrupt keyword is used.

---



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---

**CR Number:** 2844

**Component:** Instrumenter/Cosmic/HC08

**Fix:** Generating the test driver fails for Cosmic HC08 if more than one sourcefile is given and 'Testobject only' instrumentation is used.

---

**CR Number:** 2843

**Component:** Parser/gcc

**Fix:** For the GCC compiler #pragma(push,x) and #pragma(pop) are now handled correctly.

---

**CR Number:** 2842

**Component:** TASKING/VX for C166

**Fix:** TASKING/VX for C166 compiler is now supported for HiTOP and UDE.

---

**CR Number:** 2841

**Component:** IDA

**Fix:** Failure copying testcase Specification/Description larger than 10kB on reuse.

---

**CR Number:** 2839

**Component:** IDA

**Fix:** The reuse operation failed if a dynamic object is assigned to more than one pointer object.



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---

**CR Number:** 2834

**Component:** Driver

**Fix:** Error generating driver, if an address is used as pointer target in a dynamic object for a static struct pointer.

---

**CR Number:** 2833

**Component:** Driver

**Fix:** Error generating driver for pointers to undeclared structs.

---

**CR Number:** 2810

**Component:** Monitoring

**Fix:** removed 2Mb Textlimit for C1 Resultwindow

---

**CR Number:** 2795

**Component:** Driver

**Fix:** Error in communication for Boolean variables.

---

**CR Number:** 2792

**Component:** IDA

**Fix:** assignment of anonymous structs.

---

**CR Number:** 2791

**Component:** Parser/Analog Devices Blackfin

**Fix:** added keyword `__inline` for Analog Devices Blackfin compiler



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**CR Number:** 2788

**Component:** TDE

**Fix:** possible loss of passdirection of return value or parameters when importing, if the testobject is also used as local advanced stub for another testobject.

---

**CR Number:** 2785

**Component:** Driver

**Fix:** structs/enums used as parameters in a functionpointer were not declared and caused compilation errors. Parameters of functionpointers used as parameter to stubfunctions or testobjects are now declared correctly'.

---

**CR Number:** 2782

**Component:** Tanto2 multiTEST / IDA

**Fix:** IDA crashed at reuse for testobjects with interface containing a return value only.

---

**CR Number:** 2781

**Component:** Tanto2 multiTEST / IDB

**Fix:** IDB crashed when the given Tanto2 configuration file does not exist.

---

**CR Number:** 2779

**Component:** Driver

**Fix:** Attribute 'C1 Counter Type' to select data type for C1 Counters



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---

**CR Number:** 2778

**Component:** TRACE32

**Fix:** The optional "Preload Wait Time" was reset to zero to avoid delays during test execution using the TRACE32 simulator. In case of problems with emulator hardware connected, add a "Preload Wait Time" attribute within TEE in order to wait some time between execution of the init script and loading of the binary file.

---

**CR Number:** 2728

**Component:** Driver

**Fix:** wrong declaration of temporary variable for parameter of type struct/union/enum pointer in advanced stub for local functions.

---

**CR Number:** 2724

**Component:** Parser

**Fix:** type long long is not recognized by Parser for Metrowerks HC12.

---

**CR Number:** 2722

**Component:** Parser

**Fix:** type long double is not recognized by Parser for IAR M16C

---

**CR Number:** 2718

**Component:** Parser/IAR V850

**Fix:** support #pragma pack for IAR V850



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---

**CR Number:** 2717

**Component:** Instrumenter

**Fix:** instrumentation fails with identifiers longer than 128 characters.

---

**CR Number:** 2716

**Component:** IDA

**Fix:** a stubbed function is still extern after reuse, when a new source containing the function is added to the module.

---

**CR Number:** 2715

**Component:** Parser

**Fix:** After a reuse operation variables used in usercode or CTE may be not recognized.

---

**CR Number:** 2714

**Component:** Driver

**Fix:** Wrong assembler options in Makefile Template for gnu arm compiler.

---

**CR Number:** 2710

**Component:** Instrumenter

**Fix:** The instrumter failes on typedef with an empty typelist.

---

**CR Number:** 2709

**Component:** Stubfunctions

**Fix:** Using TS\_CURRENT\_TESTCASE/TESTSTEP failed within static local stubfunctions for some compiler/target environments.

---



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---

**CR Number:** 2708

**Component:** Report/Word 2000

**Fix:** The report generation failed using Word2000 if prolog/epilog usercode sections were used.

---

**CR Number:** 2706

**Component:** MPLAB ICE

**Fix:** Added support for ICD2, REAL ICE and Simulator for PIC18 and dsPIC.

---

**CR Number:** 2701

**Component:** Instrumenter

**Fix:** The Instrumenter fails if parentheses are used with @ expressions.

---

**CR Number:** 2700

**Component:** TEE

**Fix:** A new configuration file is not written on exit or save.

---

**CR Number:** 2693

**Component:** Parser

**Fix:** Variables and/or functions used within initializers at global scope are missing in the testobject interface.

---

**CR Number:** 2684

**Component:** Tessy

**Fix:** Anonymous structs and unions are now supported.



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---

**CR Number:** 2683

**Component:** EXP

**Fix:** The batchtest may terminate with out of memory if there are many testobjects with very large interfaces.

---

**CR Number:** 2682

**Component:** Instrumenter

**Fix:** Test driver generation may fail if multiple sources are used and testobject only instrumentation is selected.

---

**CR Number:** 2681

**Component:** Instrumenter

**Fix:** The Instrumenter generates invalid code for IAR MSP430 compiler if system headers containing '#pragma language=save' are used.

---

**CR Number:** 2678

**Component:** Instrumenter

**Fix:** Very long test evaluation runtime for MC/DC if the number of atoms exceed more than 8.

---

**CR Number:** 2676

**Component:** TEE

**Fix:** Problem if configuration files are write protected.

---

**CR Number:** 2675

**Component:** Tessy

**Fix:** Problem when switching between default and specific configuration.



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---

**CR Number:** 2674

**Component:** Driver

**Fix:** Building the testdriver fails if static parameters are used with Microchip PIC18.

---

**CR Number:** 2673

**Component:** IDA

**Fix:** Stubcode may get lost during reuse operations.

---

**CR Number:** 2668

**Component:** CTE

**Fix:** Arrays of structures are wrongly available within the variable list of CTE.

---

**CR Number:** 2663

**Component:** Instrumenter

**Fix:** C2 instrumentation fails when mixing logical with relational expressions. [e.g. `if ((a || b) == 1)`]

---

**CR Number:** 2635

**Component:** TDE

**Fix:** Expected values that are at the type's limit cannot be evaluated correctly when using +/- evaluation.



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---

**CR Number:** 2633

**Component:** Tessy

**Fix:** If ASAP is changed from use to don't use, test execution and display functions ignore this.

---

**CR Number:** 2632

**Component:** Parser/Instrumenter

**Fix:** Interface analysis and instrumentation fails for IAR M16C if 'interrupt [n]' is used.

---

**CR Number:** 2630

**Component:** Database

**Fix:** Loss of calltraces when CTE testcases are moved in CTE and reimported to Tessy.

---

**CR Number:** 2629

**Component:** Tessy

**Fix:** If the default environment no longer exists, it is regardless used when creating a new module.

---

**CR Number:** 2564

**Component:** Parser/ARM RVDS

**Fix:** Error using keyword `__irq` with ARM RVDS

---

**CR Number:** 2563

**Component:** Parser/Greenhills V850

**Fix:** Error using `_Bool` with Greenhills V850



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**CR Number:** 2557

**Component:** Tessy

**Fix:** Support of 3 byte data type 'short long' for Microchip Pic 18 Compiler was added.

---

**CR Number:** 2556

**Component:** Usercode

**Fix:** When copying a testcase with usercode containing interface variables, the variables in the new testcase are destroyed.

---

**CR Number:** 2522

**Component:** UCE

**Fix:** The list of stub functions within the UCE will be sorted alphabetically.

---

**CR Number:** 2521

**Component:** Import/Export

**Fix:** New feature: The file name used for import/export will be stored for each test object. For the next import/export, the respective file name will be available by default.

---

**CR Number:** 2520

**Component:** Parser/Windriver PPC5xx

**Fix:** The interface analyzer failed for Diab PPC555 if `__asm` statements are used.



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**CR Number:** 2502

**Component:** Instrumenter

**Fix:** C1-Instrumentation failed if an @ declaration is followed by an initialisation. (e.g. `char array[] @ 0xAFFE = {1, 2, 3};`)

---

**CR Number:** 2500

**Component:** Tanto2 multiTEST

**Fix:** New feature: The new Tanto2 multiTEST hardware from Hitex Development Tools, Karlsruhe allows to stimulate and measure the MCU input and output signals during execution of the unit test.

---

**CR Number:** 2499

**Component:** Coverage

**Fix:** New feature: The coverage measurement has been enhanced to support Modified Condition / Decision Coverage (MC/DC) and Multiple Condition Coverage (MCC).

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**CR Number:** 2498

**Component:** Report

**Fix:** New feature: The WORD report scripts have been changed to use RTF for the test data part of the document. This speeds up creation of the reports significantly.

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**CR Number:** 2497

**Component:** Configuration

**Fix:** New feature: The environment editor TEE allows to create individual configuration files that may be assigned to a project database (PDB).

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# Tessy 2.6

## Release Notes



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**CR Number:** 2496

**Component:** Instrumenter

**Fix:** C1-Instrumentation failed if 'struct/union {...} @ near' is used.

---

**CR Number:** 2481

**Component:** Batch Report

**Fix:** Using the batch test for report generation only, caused the testobjects to be listed with not executed state (yellow).

---

**CR Number:** 2478

**Component:** Parser/ARM RVDS

**Fix:** The interface analyzer failed for PPC compilers if asm function prototypes are used.

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**CR Number:** 2475

**Component:** Driver

**Fix:** Delete linker file from module directory before generating driver for Greenhills/V850 to force usage of actual linker file.

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**CR Number:** 2474

**Component:** Parser/Fujitsu FFMC16/FFMC32

**Fix:** Added own section in tyetable for compiler Fujitsu FFMC32.

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**CR Number:** 2473

**Component:** Driver

**Fix:** A faulty testdriver is generated for static bit Variables that are IN when some bits are set to ignore.



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**CR Number:** 2471

**Component:** Parser

**Fix:** The interface analyzer failed for asm blocks if a curly brace follows an asm keyword without whitespace.

---

**CR Number:** 2470

**Component:** Instrumenter

**Fix:** The C1-Instrumenter failed for Tasking Tricore if trap(x) is used.

---

**CR Number:** 2469

**Component:** Tessy

**Fix:** Testobject comments were lost when opening modules or executing tests.

---

**CR Number:** 2468

**Component:** TDE

**Fix:** Handling corrected for values of type 'float' that are out of range.

---

**CR Number:** 2461

**Component:** IDA

**Fix:** Assigning a function to another one that is not more available within the new interface could cause duplicated testobject entries within the PDB.



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**CR Number:** 2460

**Component:** Parser/Keil C51

**Fix:** Error in inptetable for bitfields for Keil/C51 compiler.

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**CR Number:** 2452

**Component:** TDE

**Fix:** Deleting single teststeps of one testcase (in case of more than one teststep) could cause dynamic objects to be corrupted.

---

**CR Number:** 2422

**Component:** Driver

**Fix:** Generating an invalid DEFINE() statement in the testobject makefile for Keil C51.

---

**CR Number:** 2421

**Component:** Driver

**Fix:** A faulty testdriver is generated for arrays with unions if more than one union component has pass direction OUT.

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**CR Number:** 1978

**Component:** IDB

**Fix:** New feature: Advanced stubs may be specified for local functions too. Also, the stub settings (normal/advanced stubs) will be stored for each test object independently.

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**Total:** 141