Program corrections for the IAR Embedded Workbench shared components 7.3.2

Program Corrections

- **Version 7.3.2 EW25637 / IDE-2669**
  Inserting a new line in a line that contained only a comment might remove any white space and reposition the cursor on a previous line.

- **Version 7.3.2 IDE-2704**
  A problem, that caused breakpoints to end up on the wrong line when editing source code, has been corrected.

- **Version 7.3.2 EW25756 / IDE-2779**
  Find in Files (Ctrl+Shift+F) no longer runs out of memory if the source code includes recursive include files.
  See also: IDE-2892

- **Version 7.3.2 EW24049 / IDE-1901**
  When the editor option Auto indent was enabled, pressing Enter when the insertion point was positioned before a space character in an editor window might cause the cursor to disappear.

- **Version 7.3.2 EW25639 / IDE-2668**
  When overriding inherited settings the dialog box title now shows the file for which settings are overridden.

- **Version 7.3.2 IDE-2803**
  The macro registration window is now more reliable with respect to visualizing the load status of macro files.

- **Version 7.3.2 EW25491 / IDE-2672**
  Parallel build no longer corrupts dependency files (.dep).

- **Version 7.3.2 EW22793 / IDE-2892**
  The IAR Embedded Workbench IDE no longer corrupts dependency files (filename extension .dep) when recursive includes are encountered.
  See also: IDE-2779

- **Version 7.3.2 EW25328 / IDE-2495**
  Enabling parallel build no longer blocks post-build actions.
  See also: IDE-2476

- **Version 7.3.2 EW25282 / IDE-2476**
  Parallel build now handles multi-file compilation correctly.
  See also: IDE-2495 IDE-2480 IDE-2477

- **Version 7.3.2 EW25314 / IDE-2480**
  .out files are generated now also the first time a project is built with both multi-file compilation and parallel build enabled.
  See also: IDE-2477 IDE-2476

- **Version 7.3.2 IDE-2884**
  Autostep now saves the settings between debug sessions (not per project). It also prints a log when starting and stopping.

- **Version 7.3.2 IDE-373**
  It is now possible to rename a workspace by using Save Workspace As.
  See also: IDE-2463

- **Version 7.3.0 EW25538 / IDE-2670**
  Dropping an .eww file on Info Center no longer starts an Example project save sequence. Now the workspace is opened as expected.
  See also: IDE-2658

- **Version 7.3.0 EW25616 / IDE-2658**
  Dropping an Embedded Workbench IDE workspace file (.eww) on the Information Center window started an Example project save sequence.
  See also: IDE-2670

- **Version 7.2.9 EW25727 / IDE-2783**
  The context menu for setting breakpoints now discriminates for plausible identifiers

- **Version 7.2.8 EW25709 / IDE-2749**
  Relative paths specified in the 'Output directories' boxes (available by choosing Project>Options>General Options>Output) might fail.
  See also: IDE-2464

- **Version 7.2.8 EW25737 / IDE-2759**
  When the ThreadX plugin was enabled C-SPY might crash unexpectedly when stopping at, for example, a breakpoint, even if the plugin was not being used.

- **Version 7.2.8 IDE-2757**
  An error in retrieving the current locale could load the wrong code page, thus misinterpreting non-ASCII characters.

- **Version 7.2.7 EW25253 / IDE-2464**
  Custom argument variables that expand to an absolute path are not recognized as such when expanded as a part of an output directory path on the General Options Output page in the Project Options dialog box.
  See also: IDE-2749

- **Version 7.2.7 EW25679 / IDE-2712**
  The source browser could become unresponsive if the .pbi or .pbd file was corrupt.

- **Version 7.2.7 EW25666 / IDE-2703**
  Double-clicking an .eww file do now start a new instance of IAR Embedded Workbench.
  See also: IDE-2660

- **Version 7.2.7 EW23376 / IDE-2660**
  Windows could incorrectly issue the message "There was a problem sending the command to the program" when trying to open an .eww file.
  See also: IDE-2703

- **Version 7.2.7 EW25653 / IDE-2662**
  Dragging and dropping an item within the Workspace window could lead to a crash.

- **Version 7.2.7 EW25650 / IDE-2699**
  Saving the contents of the Interrupt Log window to a file now includes the Execution Time field.

- **Version 7.2.7 EW24581 / IDE-2110**
  In the simulator it was not possible to read registers (for instance the PC) in the execUserExecutionStopped macro. It is now fixed.

- **Version 7.2.7 EW25351 / IDE-2676**
  Pressing Alt+R in the Find in Files dialog box resulted in a Replace in Files action instead of selecting the Match regular expression option.

- **Version 7.2.7 EW25507 / IDE-2562**
  Evaluating expressions that produced out-of-bounds results could cause the Debugger to crash. The problem affected the Watch windows and some plugins.

- **Version 7.2.7 EW25535 / IDE-2689**
  Too long texts in a tooltip could cause a crash. Now a text that does not fit is truncated.

- **Version 7.2.7 EW25643 / IDE-2667**
  The 'Replace with' field in the 'Replace in Files' dialog box no longer has a string size limit.

- **Version 7.2.7 EW25555 / IDE-2904**
  If a program contains several different unnamed structure types with equally named and typed fields, but with different offsets, the debugger can display some of the structure types incorrectly.

- **Version 7.2.5 EW25411 / IDE-2556**
  Cspybat might fail to handle paths that contain spaces.

- **Version 7.2.4 IDE-2510**
  The project connection file's element works properly now.

- **Version 7.2.4 EW25310 / IDE-2477**
  Batch builds ignore the 'Tools>Options>Project>Stop build operation on' option.
  See also: IDE-2476 IDE-2480

- **Version 7.2.4 EW25456 / IDE-2542**
  A dependency on loading user arguments variables made that any failure on loading a user argument variable prevented subsequent loads, this is now corrected.

- **Version 7.2.4 IDE-2537**
  Viewing external web content could cause script error alerts to be displayed

- **Version 7.2.1 EW25317 / IDE-2486**
  In some situations toggling a breakpoint in an editor window might create a new breakpoint instead of just toggling an existing one.

- **Version 7.2.1 EW25312 / IDE-2478**
  For larger projects (~100 files under version control) the IDE could fail to update the Subversion status

- **Version 7.2.1 EW25267 / IDE-2463**
  If you save a newly created workspace it might still be named "Untitled Workspace" on the Overview tab in the Workspace window.
  See also: IDE-373

- **Version 7.2.1 EW24549 / IDE-2111**
  Under certain circumstances, for example when changing Project>Options or selecting another configuration, automatic Windows 8 compatibility settings could cause problems for IAR Embedded Workbench.

- **Version 7.2.1 EW23171 / IDE-1291**
  Switching the memory zone in the Disassembly window no longer causes the IDE to stop working.

- **Version 7.2.0 EW24980 / IDE-2303**
  The Call Graph window might show incomplete results due to a change in the source browser output format.

- **Version 7.2.0 EW24948 / IDE-2283**
  Sometimes it is impossible to check in files with a file path relative to $PROJ_DIR$ when using the SCC interface.
  See also: IDE-2254

- **Version 7.2.0 EW23115 / IDE-1272**
  Variables in The Live Watch window might be marked red even though their values remain unchanged through several updates of the window.

- **Version 7.2.0 IDE-2295**
  It is now possible to process all configurations defined in a project when running iarbuild. For example iarbuild proj.ewp -build * will build all configurations defined in project file proj.ewp

- **Version 7.1.5 EW25071 / IDE-2336**
  The message box caused by an assertion is not modal. This means that it is possible to execute other commands, which could lead to a crash.

- **Version 7.1.5 EW25052 / IDE-2319**
  If stack usage tracking is enabled, failure to read stack memory might cause false stack overflow warnings.

- **Version 7.1.5 EW25023 / IDE-2314**
  Project connection files are no longer removed unintentionally from projects when you open a workspace.

- **Version 7.1.5 EW25019 / IDE-2309**
  The source browser is not always re-enabled after having been disabled. (The source browser can temporarily be disabled, for example during a build or when a debug session is started).

- **Version 7.1.5 EW24972 / IDE-2291**
  The Start Debugging and Stop Debugging commands cause resource leaks.
  See also: IDE-2292

- **Version 7.1.5 EW19444 / IDE-802**
  If you define "class xxx" or "struct xxx" and variable "xxx" in the same scope, it is impossible to evaluate variable "xxx" in the Watch/Quick Watch/Locals windows.

- **Version 7.1.4 EW25037 / IDE-2313**
  Sometimes the automatic update of the Code Coverage window fails to mark executed statements as executed.

- **Version 7.1.4 EW25007 / IDE-2306**
  Expanding a pointer to function in the Watch/Quickwatch window might cause the debugger to crash.
- **Version 7.1.4 EW25034 / IDE-2300**
  If "--code_coverage_file" is specified as a debugger extra option, it is appended at the end of the autogenerated cspybat command line line. This is incorrect because it is a general option, it must be placed before the "--backend" option.
- **Version 7.1.4 EW24974 / IDE-2292**
  The SFR Setup window leaks resources.
  See also: IDE-2291
- **Version 7.1.4 EW24954 / IDE-2284**
  Data Log graph settings in the Timeline window are not preserved.
- **Version 7.1.4 EW24795 / IDE-2254**
  An unreliable connection to the SCC server could prevent the SCC client from checking in/out files.
  See also: IDE-2283
- **Version 7.1.2 EW24827 / IDE-2274**
  Long function names are truncated in the Call Stack window.
- **Version 7.1.2 EW24906 / IDE-2265**
  When processing a file with a large number of lines, the source browser might take a very long time, thus preventing the build tools from working.
- **Version 7.1.2 IDE-2267**
  Pointers now may be displayed in Watch windows with the same syntax as for arrays, i.e. ptr;{,}
- **Version 7.1.1 EW24709 / IDE-2185**
  Adding a C-RUN rule or changing the default C-RUN action caused the IDE to crash when the C-RUN windows were grouped together.
- **Version 7.1.0 EW24421 / IDE-2012**
  It is not possible to view a variable in the Watch window as a 64 bit signed or unsigned integer, as the Watch window is missing the Show As>64-bit Signed and 64-bit Unsigned commands.
- **Version 7.0.7 EW24875 / IDE-2268**
  The Workspace window leaks icon resources.
- **Version 7.0.7 EW24868 / IDE-2237**
  The Call Stack window leaks resources.
  See also: IDE-1078
- **Version 7.0.7 EW24878 / IDE-2238**
  When code completion is used in an editor window, member/function/variable names are not correctly completed with the item selected from the completion list.
- **Version 7.0.6 EW24717 / IDE-2208**
  You must click in an editor window before using shortcuts in it, if you just closed another editor window.
- **Version 7.0.6 EW24759 / IDE-2206**
  Using the WS_DIR argument variable in the project file could cause iarbuild.exe to exit abnormally.
- **Version 7.0.6 EW24719 / IDE-2197**
  The SymList plugin should be loaded by default but is not.
- **Version 7.0.6 EW21235 / IDE-2174**
  Argument variables related to the build output (e.g., $TARGET_DIR$ and $TARGET_BNAME$) will now be expanded correctly when the output file itself is missing.
- **Version 7.0.6 EW24641 / IDE-2145**
  The progress information when examples were downloaded was incorrect in the Japanese language mode.
- **Version 7.0.6 EW24660 / IDE-2144**
  When accessing files in the project, Windows could display the error message: "The requested operation cannot be performed on a file with a user-mapped section open." The reason was that the source browser could lock the files.

- **Version 7.0.6 EW24599 / IDE-2132**
  Some objects of a class/struct/union type might be impossible to expand (there is no '+' sign in front of them).
- **Version 7.0.6 IDE-2128**
  Code completion can now be manually invoked (using the Edit menu or Ctrl+Space), even if the cursor is not placed after '->', '::' or '.'. Invoking code completion by typing a period ('.') still works, but using Ctrl+Space is the recommended method.
- **Version 7.0.6 EW24586 / IDE-2112**
  A mismatch when converting character sets using Active Code Page encoding mixed with UTF8 might make some paths unusable for the source browser.
- **Version 7.0.5 EW24607 / IDE-2125**
  The menu command View>Cores was disabled even though the project was configured for asymmetrical multicore debugging.
- **Version 7.0.3 EW24593 / IDE-2117**
  Sometimes SFR groups might not be shown in the Register window even though they are defined in the .ddf file.
- **Version 7.0.3 EW24589 / IDE-2115**
  In some rare cases data is shown as code in the Disassembly window.
- **Version 7.0.3 EW24552 / IDE-2099**
  In some cases, using a macro to save target memory to a file might cause the debugger to crash.
- **Version 7.0.3 EW24339 / IDE-2032**
  The Sampled Graphs window displays the time in tooltips in seconds (s) instead of milliseconds (ms).
- **Version 7.0.3 EW24399 / IDE-1997**
  Very rarely, adding a variable to the Watch window might cause the debugger to exit abnormally.
- **Version 7.0.0 IDE-1867**
  Non-ASCII characters in the workspace/project path no longer cause a fatal error when starting the debugger.
- **Version 6.6.9 EW24451 / IDE-2062**
  When the HTML-format linker map file is opened, it is not automatically updated even though the option 'Scan for changed files' is enabled. Map files in text format are automatically updated.
- **Version 6.6.9 EW24468 / IDE-2052**
  Auto indent now only plays a sound to indicate that the file is read-only.
- **Version 6.6.9 EW24472 / IDE-2038**
  The Configure Viewers dialog does no longer crash when command lines longer than 1024 characters are entered.
- **Version 6.6.9 EW24474 / IDE-2025**
  If a file is opened in the text editor using a Windows hard link, and then saved, the hard link will be replaces by a regular file path.
- **Version 6.6.8 IDE-2017**
  Default key bindings are no longer active when new ones are defined.
- **Version 6.6.8 EW24417 / IDE-2013**
  It is now possible to redefine a default key binding. However, it is not possible to permanently remove a default key binding; it will be restored in the next session.
- **Version 6.6.8 EW24302 / IDE-1939**
  The number of editor code template entries has been increased to 2000.
- **Version 6.6.7 EW24375 / IDE-1984**
  Removing of a breakpoint while the debugger is executing might make the debugger unstable.
- **Version 6.6.6 EW24313 / IDE-1948**
  If an externally built ELF/DWARF object file contained a struct declared in a function scope prototype, the debugger could exit unexpectedly while downloading the file.

- **Version 6.6.6 EW24306 / IDE-1941**
  Selecting the option 'Options>C/C++ Compiler>Preprocessor>Ignore standard include directories' caused the source browser to stop working.
- **Version 6.6.6 EW24274 / IDE-1929**
  If you created a source file using the "File>New File" command, code completion did not work until you closed and reopened the file in the editor.
- **Version 6.6.6 EW23383 / IDE-1170**
  Lines over a certain length could not be viewed in their entirety in the Batch Build dialog box.
- **Version 6.6.6 EW24304 / IDE-1940**
  Increased the maximum number of functions in the Go To Function dropdown menu from 200 to 2000.
- **Version 6.6.6 EW24292 / IDE-1933**
  When displaying the interrupt log in the Timeline window, the interrupt duration was always displayed in time units, even if Time Axis Unit was set to Cycles.
- **Version 6.6.6 EW24266 / IDE-1967**
  Defining the **main** function in a non-standard way that is not `int main(int argc, char *argv[])` or `int main(void)` might limit source browse information.
- **Version 6.6.5 EW24242 / IDE-1918**
  When replacing text by clicking "Replace All" in the "Replace in Files" dialog box, truncation did not work correctly. That meant that if the replacement string was shorter than the text to replace, the resulting file would contain extra, unwanted characters at the end.
- **Version 6.6.4 EW24201 / IDE-1907**
  Autocompletion, the "Go to function" button, and tooltip information did not work in IAR Embedded Workbench products based on the common components version 6.6.2 and 6.6.3.
- **Version 6.6.4 EW24190 / IDE-1904**
  An .svd file that contains extremly long lines might cause the IAR Embedded Workbench IDE to stop responding.
- **Version 6.6.4 EW24027 / IDE-1858**
  Using the argument variables $TARGET_BNAME$ and/or $TARGET_BPATH$ when specifying the linker output file could lead to unexpected termination.
- **Version 6.6.4 EW20933 / IDE-374**
  If a project that was created using IAR Embedded Workbench installed together with visualSTATE is opened in IAR Embedded Workbench installed without visualSTATE, a warning referring to an "unknown tool 'Coder'" is no longer displayed.
- **Version 6.6.3 EW24183 / IDE-1882**
  When the debugger stops at a breakpoint, the "Go to function" button and the insertion point position on the status bar are not visible until you click in the editor window.
- **Version 6.6.2 EW24170 / IDE-1893**
  In some cases IarBuild failed to expand argument variables based on environment variables ($_ENVVAR_$).
- **Version 6.6.2 EW24164 / IDE-1889**
  ARM only: The SVD reader can now handle elements that do not contain any dimElementGroup.
- **Version 6.6.2 EW24124 / IDE-1880**
  End of file (EOF) condition of stdin in the Terminal I/O is now handled correctly, making _read(), fread() and similar functions to return the proper status.
- **Version 6.6.2 EW24116 / IDE-1875**
  Include paths that did not match the capitalization of the actual files and directories were ignored by the Source Browser.
- **Version 6.6.10 EW23494 / IDE-1362**
  Deleting the folded line in the Editor window could produce a gap in line numbering.
- **Version 6.6.1 EW24079 / IDE-1874**
  Find/Replace in files sometimes failed to find matches in files that contain utf-8 encoded text.

- **Version 6.6.1 EW24053 / IDE-1865**
  If you started and stopped the debugger several times during one IAR Embedded Workbench session, a serious memory leak could lead to abnormal termination.

- **Version 6.6.0 EW23984 / IDE-1792**
  Using of the argument variables $DATE$ and $USER_NAME$ in, for example, a file path could lead to a "Standard multi tool failed to establish output file name" error.

- **Version 6.6.0 EW23948 / IDE-1755**
  Auto-indent always inserted spaces even when the option "Insert tab" was selected.

- **Version 6.6.0 IDE-1436**
  Added support for restricting a search to the selected text. Supported in Find, Replace and Incremental search dialogs.

- **Version 6.6.0 EW23317 / IDE-1323**
  The editor now uses different colors and fonts for the preprocessor information.

- **Version 6.6.0 EW23263 / IDE-1322**
  Expanding a huge array in a debugger watch window could cause an out-of-memory crash. Now array expansion is halted after 5000 elements, but can be continued manually.

- **Version 6.6.0 EW24010 / IDE-1824**
  Trailing blanks were sometimes not trimmed from the name of the linker output file, which could cause problems when the extension ".out" was considered to be different than ".out ".

- **Version 6.5.9 EW23934 / IDE-1743**
  Sometimes, when performing the internal integrity check, the flash loader caused a false alarm. This resulted in a long list of incorrect warnings in the flash0.trace file.

- **Version 6.5.9 EW23818 / IDE-1610**
  The CPU load caused by monitoring the time stamps of the project files (and their dependencies) has been reduced.

- **Version 6.5.9 EW23917 / IDE-1709**
  Executing a Reset command while debugging could lead to a crash if the Stack window was open.

- **Version 6.5.8 EW23810 / IDE-1609**
  "Go to definition" failed to find functions defined in .cpp files if they were defined with extern 'C' linkage.

- **Version 6.5.7 EW23836 / IDE-1637**
  Clicking the expand icon or scrolling in the Source Browser window before the information has been completely collected could lead to crash.

- **Version 6.5.7 EW23853 / IDE-1580**
  When stopping at a breakpoint in the Disassembly window, the current position arrow is not visible, only the red breakpoint icon.

- **Version 6.5.6 EW23829 / IDE-1605**
  In some situations, IAR Embedded Workbench might incorrectly stop reporting build errors if you retry Project>Make several times in a row without making any changes to source files. This is, of course incorrect. The errors are still there even if they are not reported, and the build will not be successful despite being reported as such.
  See also: IDE-1471

- **Version 6.5.5 IDE-1595**
  Running IarBuild.exe in a Jenkins environment can fail with a "Build aborted" message. Building the same project with IarBuild.exe without Jenkins works fine.

- **Version 6.5.4 EW23757 / IDE-1569**
  If a function was defined using the "static" keyword but declared without it, or vice versa, a "Go to definition" command for this function failed.

- **Version 6.5.4 EW23741 / IDE-1497**
  Auto-indentation could in sometimes fail to indent a line directly after a preprocessor directive.

- **Version 6.5.4 EW23648 / IDE-1474**
  If a search for a regular expression in the Find in Files window produced a result containing line breaks, only the first line was displayed.

- **Version 6.5.3 EW23743 / IDE-1498**
  Undoing an auto indentation command applied to a source block required an undo for every line in the block. Now a single undo command reverts the entire block.
- **Version 6.5.3 EW23714 / IDE-1476**
  Setting a breakpoint in a uC/OS-III project could make C-SPY unresponsive. This has been corrected.
- **Version 6.5.3 EW23669 / IDE-1475**
  The "Go to Definition" and "Go to Declaration" commands did not find names located in comments or inactive source code.
- **Version 6.5.3 EW23726 / IDE-1473**
  In some cases incorrect project settings caused the debugger to issue an error upon starting, only to exit unexpectedly after the error was corrected. This no longer happens.
- **Version 6.5.3 EW23711 / IDE-1472**
  Projects with many include files and/or many #define's could make the source browser slow. This has been corrected.
- **Version 6.5.3 EW23704 / IDE-1466**
  If a "Project>Project Connection" command added an include path to the "Additional include directories" field on the "Project>Options>C/C++ Compiler>Preprocessor" options page, and that path contained any environment variables like "$PROJ_DIR$", they were expanded and the path was saved that way. Now paths are saved unconverted.
- **Version 6.5.3 EW23463 / IDE-1450**
  It was impossible to place the insertion point to edit names of variables in undocked windows.
- **Version 6.5.3 EW23234 / IDE-1297**
  The editor's "Open include file" command did not work correctly for include files excluded from the build.
- **Version 6.5.3 EW23688 / IDE-1471**
  The source browser no longer issues repeated warnings if undefined environment variables are part of any include path.
  See also: IDE-1605
- **Version 6.5.2 EW23612 / IDE-1420**
  The source browser generated incomplete information when the --preinclude directive was used. This has been corrected.
- **Version 6.5.2 EW23610 / IDE-1419**
  In previous versions of IAR Embedded Workbench, source browser and build status updates stopped when the IDE was not the foreground process. This behavior is now controlled by an option in the Tools>Project dialog box.
- **Version 6.5.2 EW23596 / IDE-1414**
  Sometimes, setting a breakpoint in highly optimized code could cause IAR Embedded Workbench to exit unexpectedly. This has been corrected.
- **Version 6.5.2 EW23434 / IDE-1349**
  Expressions in the Live Watch window which did not evaluate to a C/C++ lvalue did not update during execution. This has been corrected.
- **Version 6.5.2 EW23432 / IDE-1344**
  Because of a missing notification, the Source Browser window could display "Collecting information..." for ever. Now it is updated as soon as the source browse information is ready.
- **Version 6.5.2 EW23525 / IDE-1455**
  Because of a problem with processing paths containing "..\\.." patterns, some include files could be displayed twice in the Workspace window.
- **Version 6.5.2 EW23619 / IDE-1443**
  Some problems that could cause the IDE to freeze terminating a debug session have been corrected.
- **Version 6.5.2 EW23620 / IDE-1441**
  Executing a Debug>Memory>Restore... command to non-writable memory gave an incorrect error message. This message is correct now.

- **Version 6.5.12 EW24172 / IDE-1897**
  The source browser did not recognize a mixed case file extension (e.g. *.Cpp) as a valid extension for a C++ source file.
- **Version 6.5.12 EW23825 / IDE-1613**
  Reloading an externally modified project file (.ewp) could crash the debugger.
- **Version 6.5.12 EW23420 / IDE-1644**
  Because linker input files were sorted case-sensitive, the output files could differ from linking to linking, even though the linker input files were identical, binary-wise. However, the output files were correct in all cases.
- **Version 6.5.11 EW23991 / IDE-1785**
  The source browser did not recognize target-specific extended keywords for M16C, RL78, V850 and RX. If there were more than 100 keywords in a source file, the source browsing information was not generated (too many errors).
- **Version 6.4.8 EW23564 / IDE-1394**
  The text editor failed to automatically detect the character encoding that was used, because of missing DLLs. This has now been corrected.
- **Version 6.4.7 EW23514 / IDE-1380**
  Creating or editing configurations in the Memory Configuration dialog box when running a session in Japanese could cause IAR Embedded Workbench to exit unexpectedly.
- **Version 6.4.7 EW23500 / IDE-1366**
  The commands Next/Previous Bookmark now wrap at the beginning and the end of the document.
- **Version 6.4.6 EW23441 / IDE-1361**
  When the downloaded application does not contain any C variables (with static storage duration), the I-jet driver will no longer issue a warning about finding no variables in memory designated as RAM.
- **Version 6.4.6 EW23330 / IDE-1356**
  C-SPY could misinterpret certain flags in an ELF file and consider some read-only segments writable. This could interfere with memory integrity checks when launching a debug session. This has been corrected.
- **Version 6.4.6 EW23451 / IDE-1354**
  It is no longer possible in the Memory Configuration Window to enter an end address that is lower than the start address.
- **Version 6.4.6 EW23454 / IDE-1353**
  The "Project>Import File List..." dialog box in the Japanese version of IAR Embedded Workbench did not show *.ewp files by default. This has been corrected.
- **Version 6.4.6 EW23428 / IDE-1345**
  Strings and C/C++-style comments were not colored in assembler files. This has been corrected.
  See also: IDE-1351
- **Version 6.4.6 EW23474 / IDE-1359**
  In some cases stopping execution in the heavily optimized code could cause the debugger to exit abnormally. This has been corrected.
- **Version 6.4.6 EW23471 / IDE-1358**
  Executing the context menu command "Force" on a vacant area in the "Forced Interrupt" window caused the debugger to exit unexpectedly. This has been corrected.
- **Version 6.4.5 EW23409 / IDE-1333**
  The text editor will now correctly reload files that were opened as read-only.
- **Version 6.4.5 EW23085 / IDE-1267**
  Specifying the "General Options->Output->Executables/libraries" path with a trailing space caused IAR Embedded Workbench to quit unexpectedly. This no longer occurs.
- **Version 6.4.5 EW23336 / IDE-1330**
  Sometimes the localized (Japanese) strings were garbled in the Watch window. This has been corrected.
- **Version 6.4.5 EW23341 / IDE-1329**
  The Memory window lost focus when editing memory content after entering one unit. This has been corrected.

- **Version 6.4.5 EW23378 / IDE-1328**
  Defining a typedef and a struct using the same identifier caused the source browser to stop working. This has been corrected.
- **Version 6.4.5 EW23403 / IDE-1332**
  The "Memory Restore" command did not work in some cases for the Motorola format. This has been corrected.
- **Version 6.4.5 EW23334 / IDE-1331**
  The horizontal scroll bar in the editor window did not show all of a very long line. This has been corrected.
- **Version 6.4.4 EW23343 / IDE-1325**
  A project in an initial stage (with missing source files) may crash the SourceBrowser when doing a Rebuild. This has been corrected.
- **Version 6.4.2 EW23287 / IDE-1316**
  The IDE no longer becomes unresponsive when .ddf file containing empty sections is opened.
- **Version 6.4.2 EW23283 / IDE-1320**
  The IDE could crash when double clicking a leaf in the code coverage window, due to a missing path in the editor view. This is now fixed.
- **Version 6.4.2 EW23285 / IDE-1319**
  The editor could become sluggish when operating on files located on a slow network drive. Speed has been improved by changing the behavior of file monitoring (i.e. detecting file changes made externally).
- **Version 6.4.2 EW23253 / IDE-1296**
  Reloaded editor files were incorrectly scrolled to the beginning. They are now opened at the expected location.
- **Version 6.4.2 EW23324 / IDE-1318**
  Input via a non-Latin keyboard (e.g. Cyrillic) was not working. This has been corrected.
- **Version 6.4.2 EW23278 / IDE-1305**
  Caret color is now set to white if the background is dark, and black otherwise.
- **Version 6.4.2 EW23265 / IDE-1303**
  The editor no longer tries to identify special comments like '//!' or '///' (e.g. Doxygen or javadoc comments). Now everything after '//' is handled as a normal C++ comment.
- **Version 6.4.0 EW22351 / IDE-1279**
  The source browser could cause the IDE to become unresponsive if the license for the compiler could not be verified. This no longer occurs.
- **Version 6.4.0 EW23111 / IDE-1270**
  A failed post-build step was not included in error count displayed in the status bar. This has been corrected.
- **Version 6.4.0 EW23041 / IDE-1259**
  Setting/clearing breakpoints on the lowest line in the Disassembly window by clicking on the leftmost column now works correctly in all cases.
- **Version 6.4.0 EW22820 / IDE-1221**
  The Timeline window was not updated correctly when data log breakpoints were enabled/disabled during a debug session. This has been corrected.
- **Version 6.3.6 EW22665 / IDE-1185**
  Using the __setSimBreak C-SPY macro to set a "write" breakpoint ("W") resulted in a breakpoint set as "read" ("R") instead. This has been corrected.
- **Version 6.3.22 EW23261 / IDE-1317**
  It is now possible to restore an srec/hex file via the debugger using the "Debugger>Memory>Restore>Memory Restore" command.
- **Version 6.3.2 EW22463 / IDE-1147**
  The command 'Undo Checkout' in the Version Control System submenu for SCC did not work. This has been corrected.
- **Version 6.3.19 EW23623 / IDE-1458**
  In some cases the debugger could exit unexpectedly when stopping at a breakpoint with a Condition and/or Action to be executed.

- **Version 6.3.18 EW23123 / IDE-1273**
  C-SPY could exit unexpectedly when stepping through heavily optimized code containing cross calls. This has been corrected.

- **Version 6.3.17 EW23081 / IDE-1265**
  Choosing Debug>Memory>Save/Restore while the target was running could produce incorrect data. These operations are now disabled when the target is running.

- **Version 6.3.17 EW22969 / IDE-1251**
  Previously IAR Embedded Workbench did not remember a connection to some source control systems (for example ClearCase) between sessions. This has been corrected.

- **Version 6.3.17 EW23031 / IDE-1255**
  It was impossible to set the offset on the Project>Options>Debugger>Images page to a value greater than 0x7FFFFFFF. This is possible now.

- **Version 6.3.16 EW23009 / IDE-1252**
  The Interrupt Log Summary window could show uninitialized content directly after a debugging session started. This has been corrected.

- **Version 6.3.15 EW22868 / IDE-1235**
  Trying to load a file that contains modules produced with gcc could cause the IDE to crash. This has been corrected.

- **Version 6.3.15 EW22923 / IDE-1236**
  In some cases executing multiple Page Up commands in the Disassembly window could cause the code to be disassembled incorrectly. This has been corrected.

- **Version 6.3.15 EW22901 / IDE-1231**
  The contents of the Statics window were not filtered when it was opened after the start of a debugging session. The correct contents were not displayed until after a window update (for example after executing a step command). This has been corrected.

- **Version 6.3.14 EW22920 / IDE-1232**
  The Source Browser failed to browse include files specified with an absolute path. This has been corrected.

- **Version 6.3.14 EW22893 / IDE-1230**
  The IAR Embedded Workbench integration with Subversion could misinterpret some Subversion version 1.7.x messages, which resulted in the internal error: "SVN: Internal Error: SVN_Status - did not find file". This has been corrected.

- **Version 6.3.14 EW22861 / IDE-1222**
  {anchor} When forcing an interrupt in the simulator the pending flag was not set. It is now fixed.

- **Version 6.3.12 EW22710 / IDE-1217**
  If a path for the build log file contained an argument variable (like "$PROJ_DIR$") and the "Overwrite old file" option was selected, the log was still appended to the existing file. This has been corrected.

- **Version 6.3.12 EW22795 / IDE-1215**
  Release Note: Function-like macros with zero parameters caused the Source Browser to lose the definition following the macro. For example, after this definition: #define MACRO() macro_body x in the following lines would not be recognized the Source Browser: MACRO() int x; This has been corrected.

- **Version 6.3.12 IDE-1214**
  {anchor} A problem in the debug server (CSpyServer.exe) has been fixed which would, under certain conditions, cause the debug server to be left hanging.

- **Version 6.3.12 EW22784 / IDE-1210**
  The debugger might close unexpectedly during long trace acquisition (several hours) in the time line window. This no longer happens.

- **Version 6.3.10 EW22766 / IDE-1203**
  In some cases, single stepping or running to breakpoints when the Call Stack window is open could make the IDE unresponsive. This has been corrected.

- **Version 6.3.10 EW22764 / IDE-1202**
  If you used two or more monitors, ending a debug session with the main IDE window open on one monitor but the Disassembly window on another monitor, IAR Embedded Workbench could terminate unexpectedly when you restarted the debug session. This has been corrected.

- **Version 6.3.10 EW22667 / IDE-1187**
  In watch windows, pointers to ARM Thumb functions now correctly show the function name.
- **Version 6.3.10 EW22528 / IDE-1188**
  A minor memory leak when using the source browser has been corrected.
- **Version 6.3.10 EW22609 / IDE-1174**
  Files in editor panes were not always restored to the correct panes. This has been corrected.
- **Version 6.3.1 EW22409 / IDE-1136**
  If the Watch window was not already open, executing "Add to Watch" on a selection in the editor window just opened the Watch window without adding an entry to it. Now it does.
- **Version 6.3.1 EW22401 / IDE-1133**
  A build problem where argument variables, in some circumstances, were not expanded relative to the configuration actually being built has been corrected
- **Version 6.3.0 EW23385 / IDE-1326**
  If two or more IAR Embedded Workbench toolchains (for different microcontroller architectures) were installed in the same directory, and some of the toolchains were only available in English, launching IAR Embedded Workbench in a non-English language meant that the Information Center was not available for English-only toolchains. This has been corrected.
- **Version 6.3.0 EW22342 / IDE-1123**
  If two or more IAR Embedded Workbench toolchains (for different microcontroller architectures) were installed in the same directory, and some of the toolchains were only available in English, launching IAR Embedded Workbench in a non-English language meant that the Information Center was not available for English-only toolchains. This has been corrected.
- **Version 6.1.6 EW22203 / IDE-1093**
  Errors and warnings detected when building were reported as twice as many they really were. This has been corrected.
- **Version 6.1.5 EW21536 / IDE-829**
  The "Go to definition" command applied to a symbol which definition was located in a conditionally included header file could fail. This has been corrected.
- **Version 6.1.3 EW22125 / IDE-1072**
  In some cases, when using trace based data features, executing an application in the debugger over a long time could result in a "Runtime Error!" message and abrupt IAR Embedded Workbench termination. This no longer occurs.
- **Version 6.1.0 EW22005 / IDE-1041**
  The "Project>Options>Linker>Output>Output file:" text box accepted a file path instead of just a file name which could lead to project building problems. This has been corrected and the option has been renamed.
- **Version 6.1.0 EW21840 / IDE-1043**
  Using a path containing ".." to defined output directories could make it impossible to start the debugger. This has been corrected.
- **Version 6.1.0 EW21869 / IDE-1042**
  Namespaces could not be used when the IAR C-SPY Debugger resolved names. This has been corrected.
- **Version 6.0.0 EW21413 / IDE-682**
  Opening a context menu in the Editor window will no longer produce strange error entries in the Debug Log window.
  See also: IDE-678
- **Version 5.8.2 EW22178 / IDE-1088**
  Recursive definitions of a preprocessor macro no longer causes IAR Embedded Workbench to terminate abnormally.
- **Version 5.8.2 EW22127 / IDE-1086**
  Large and complex projects no longer cause the IAR Embedded Workbench source browser to freeze.
- **Version 5.8.2 EW22076 / IDE-1061**
  The IDE command Stop Build now works properly when it is applied to pre- or post build actions when they are started in a new command shell.

- **Version 5.8.1 EW22156 / IDE-1078**
  IAR Embedded Workbench could leak GDI (Graphics Device Interface) objects in some cases. This no longer occurs.
  See also: IDE-2237

- **Version 5.8.1 EW21751 / IDE-1008**
  Corrupt .wsdt and .dbgdt files in a project's settings directory could cause IAR Embedded Workbench to quit unexpectedly. Now, if this situation occurs, the IAR Embedded Workbench IDE reverts to default layouts.

- **Version 5.8.1 EW21924 / IDE-1006**
  A serious memory leak could lead to IAR Embedded Workench abnormal termination. This has been corrected.

- **Version 5.6.7 EW23875 / IDE-1667**
  Printing more than 16,000 characters to the Terminal I/O window produces incorrect output.

- **Version 5.6.3 EW21603 / IDE-833**
  Incorrect address of members of anonymous structs and unions was shown in the Live Watch window. This has been corrected.

- **Version 5.6.3 EW21565 / IDE-828**
  Large and complex projects could cause the IAR Embedded Workbench source browser to freeze. This has been corrected.

- **Version 5.6.2 EW21532 / IDE-814**
  If you exited the debugger while the application was running and the option "Leave Target Running" is selected, an incorrect stack treshold exceeding warning was issued. This no longer happens.

- **Version 5.6.2 EW21491 / IDE-750**
  Adding a file to a project will now use the current case of the file name, even if it was previously included in the project with another case.

- **Version 5.6.0 EW20856 / IDE-349**
  There was a problem when switching from multi-file compilation mode to single-file compilation, causing the error "Build error: Multiple tools write to the same file" to be issued. This problem has been corrected.

- **Version 5.6.0 EW21413 / IDE-678**
  Opening a context menu in the Editor window will no longer produce strange error entries in the Debug Log window.
  See also: IDE-682

- **Version 5.5.5 EW21391 / IDE-633**
  Dragging an expression containing a dereferenced function pointer onto the Memory window no longer causes the debugger to crash.

- **Version 5.5.4 EW21255 / IDE-562**
  The source file paths retrieved from the externally built ELF/DWARF object file are now correctly interpreted by the debugger.

- **Version 5.5.3 EW21301 / IDE-564**
  Sometimes, while stepping in a complex C++ program, the displayed source code location did not reflect the current program counter. This has been corrected.

- **Version 5.5.0 EW20980 / IDE-422**
  A rare problem with downloading files in the Motorola S37 format into the wrong memory location has been corrected.

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