



Tampere (Finland) / Offenburg (Germany), 14 May 2013

Please be informed that a new **CTC++ version 7.1.2** has been released.

This v7.1.2, like the previous v7.1.1 from April, is a bug-fix version on the tool. In the HTML report there is one enhancement.

See below the CTC++ v7.1.2 VERSION.TXT excerpt for more detailed info.

The new version is available on all supported host platforms.

This revision 7.1.2 of CTC++ has the following version numbers in its components:

|                            |       |  |
|----------------------------|-------|--|
| Preprocessor               | 7.1.2 | (was 7.1.1; seen by -h option)   |
| Run-time libraries         | 7.1   | (unchanged; seen by 'ident' command applied on the library in some environments) |
| Postprocessor              | 7.1.1 | (unchanged; seen by -h option and in the listings)                               |
| Header file ctc.h          | 7.1   | (unchanged; seen in the file)  |
| Configuration file ctc.ini | 7.1   | (unchanged; seen in the file)  |
| CTC++ to HTML Converter    | 3.4   | (was 3.3; seen by -h option)   |
| CTC++ to Excel Converter   | 2.0   | (unchanged; seen by -h option)   |
| CTC++ Merger utility       | 2.0   | (unchanged; seen by -H option and in the merged listings)                        |
| ctc2dat receiver utility   | 3.1   | (unchanged; seen by -h option)   |

and the following version numbers in its Windows platform specific components:

|                               |     |  |
|-------------------------------|-----|--|
| Visual Studio IDE Integration | 4.1 | (unchanged; seen by clicking the Tw-icon in the dialog program and selecting "About...") |
| CTC++ Wrapper for Windows     | 3.0 | (unchanged; seen by -h option)   |

and the following version numbers in its Unix platform (Linux, Solaris, HPUX) specific components:

|                        |     |                                |
|------------------------|-----|--------------------------------|
| CTC++ Wrapper for Unix | 1.3 | (unchanged; seen by -h option) |
|------------------------|-----|--------------------------------|

This CTC++ v7.1.2 version contains enhancements and bug fixes:



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In the CTC++ preprocessor (ctc):

- Bug fix: If '&' occurred in a declaration in condition, e.g., 'if (aCls &ref = ...) {...}', the condition was instrumented incorrectly and did not compile. Now corrected.
- Bug fix: If the expression in a 'return' statement (as well as certain other statements, e.g., 'switch') contained something like 'return FuncArr[5](6);', this could cause various symptoms, e.g., CTC++ might report a syntax error. Now corrected. (Occurred only in v7.1 and v7.1.1).
- Bug fix: In a combination where 'count', for example, was a template in outer context and was redefined as, say, 'int count;' inside a function, and then assuming code '... expr ? count < 5 : true ...'. With this specific combination and connection, the instrumentation resulted in non-compilable code. Now corrected.
- Bug fix: (C++11 feature) If '&' occurred in the trailing return type of a function, e.g. 'auto foo() -> int & {...}', the function remained uninstrumented. Now corrected.
- Bug fix: If C++11's new attribute specifier [[...]] occurred in the following context, e.g. 'void f [[ noreturn ]] () {...}', the function remained uninstrumented. Now corrected.
- Change: When C# and Java code, identifiers are now allowed to begin also with an ascii character code 128-255. (Already allowed after the first char in v7.1.1).
- Change: When Java code, 'finally' is instrumented like '\_\_finally' in VC++. Previously it was not instrumented at all.
- Change: When Java code, a 'for' statement with an empty condition, like 'for(...;;...)' is instrumented as if it were 'for(...;true;...)' and not like 'for(...;1;...)', which does not compile as Java code.
- Change: When Java code, the function end-brace does not get a probe any more.

In CTC++ to HTML converter (ctc2html):

- Change: Now the -s options are used also for correctly grouping the source files to directories at Directory/Files/Functions Summary pages. Previously the -s options were used only for finding the source files for being able to generate the html'ized Execution Profile page on the files.
- Change: Some small/optical changes in the HTML report.



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General:

- CTC++ User's Guide is still at v7.1.1 level (ctcug.pdf).

Version 7.1.1 (8 April 2013)

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For this version, please have a look to  
<http://www.verifysoft.com/ctcpp711.pdf>