

## Release Notes: GNU16CM32C v11.01

1<sup>st</sup> March 2011

KPIT Cummins Infossystems Limited is releasing the GNU16CM32C v11.01, a cross compiler tool for Renesas M16C series of micro-controllers.

### SALIENT FEATURES:

1. The GNU16CM32C v11.01 toolchain is based on gcc-4.5.2 [released], binutils-2.21 [released], newlib-1.18.0 [released] and gdb-7.2.50 [snapshot dated 7<sup>th</sup> December 2010].
2. The latest patches are applied to gcc, binutils and newlib sources.

### ABOUT GNU16CM32C v11.01:

Release Version:	GNU16CM32C v11.01
Release Date:	1 <sup>st</sup> March 2011
Platforms Supported:	Red Hat GNU/Linux v8.0 or later (or compatible distribution) Windows NT / 2000 / XP / Vista / Windows 7
Language:	C, C99
Targets:	R8C: R8C/Tiny M16C: M16C/10, M16C/20, M16C/Tiny, M16C/30, M16C/60 M32CM: M16C/80 M32C: M32C/80, M32C/90
Object File Format:	ELF

## CHANGES IN THIS RELEASE:

This section describes the enhancements made and the issues fixed in the v11.01 release.

### HEW (For Windows OS only):

1. Use of the Flash Development Tool (FDT) plug-ins under HEW on Windows Vista is deprecated. Hence, users are advised to download the latest version of FDT application and use it independently for Flash downloads.

## KNOWN LIMITATIONS IN M16CM32C-ELF:

This section describes the known limitations in this release. We intend to fix these issues in our future releases. We occasionally release maintenance packs for critical bug fixes.

### Windows and GNU/Linux:

1. The structure alignment is, by default, set to single byte alignment. Therefore, the usage of the structure packing attribute (packed) or command line options (-fpack-struct) has no effect on the generated code.
2. Library Generator:  
Please visit the following link for the known issues and limitations related to this utility:  
<http://www.kpitgntools.com/phpmyfaq/index.php?aktion=artikel&rubrik=008002&id=417&lang=en>

### HEW (For Windows OS only):

1. The complete stack trace is not visible while debugging an application using the simulator.
2. The 'Generate Makefile' feature is currently not supported in HEW.

For other limitations pertaining to the single interface for the compiler, assembler, linker and library generator, please visit the following link:

<http://www.kpitgntools.com/phpmyfaq/index.php?aktion=artikel&rubrik=003001&id=445&lang=en>

## NOTE:

### Windows and GNU/Linux:

1. The optimized libraries provided along with the newlib libraries in the toolchain do not require a separate download.
2. The optimized libraries ('liboptm.a' and 'liboptc.a') are not provided under GNU GPL. The source code of these optimized libraries is neither released nor available on request.
3. The "libgen" utility is not provided under GNU GPL. The source code of the "libgen" utility is neither released nor available on request.

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For your feedback and suggestions, please visit <http://www.kpitgntools.com/feedback.php>