

Release Notes: GNUV850 v12.02

22nd June 2012

KPIT Cummins Infossystems Limited is releasing the GNUV850 v12.02, a cross compiler tool for Renesas V850 micro-controllers.

SALIENT FEATURES

1. The GNUV850 v12.02 toolchain is based on
GCC 4.7.0 [released]
Binutils 2.22 [released]
Newlib1.20.0 [released]
GDB 7.4.1 [released]
2. The latest patches are applied to gcc, binutils and newlib sources.

ABOUT GNUV850 v12.02

Release Version:	GNUV850 v12.02
Release Date:	22 nd June 2012
Platforms Supported:	Red Hat GNU/Linux v8.0 or later (or compatible distribution) Windows XP, Windows 7 (32-bit and 64-bit)
Language:	C, C99, C++
Targets:	mv850 mv850e mv850e1 mv850e2 mv850e2v3
Object File Format:	ELF

CHANGES IN THIS RELEASE:

1. Stepwise building (invoking compiler and linker separately) of any C application that uses libgcc functions fails if compiled using target specific option '-mv850e1'.

This issue is fixed by creating different 'multilibs' for v850, v850e and v850e1.

2. Debug information generation is enhanced for the applications built using optimization. This helps in better and controlled stepping through the application source even if built using optimization options enabled.

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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