

Information about new features of DAVE[™] version 3.1.10

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DAVE[™] version 3.1.10 is available as installer setup or as zipped file package. The installer for DAVE[™] v3.1.10 will install a new instance of DAVE[™] and keep earlier versions untouched. The installer includes the latest version DAVE Apps libraries (v1.0.58). By default DAVE v3.1.10. will install the DAVE Apps libraries in a new position in the user folder but this preference can be changed to an existing local library store-however, we recommend to use the latest version of DAVE Apps.

DAVE[™] v 3.1.10 comes with following new features/ changes in comparison to DAVE[™] v3.1.8:

- Generation of a gpdsc file to ease the use of the generated library files in Keil MDK μ Vision 5
- Integration of GDB as second debugger option, in addition to TASKING debugger
- Device support for XMC1000 VQFN devices and XMC4108
- ARM GCC v4.7 Q3 update
- Fix of issues e.g. when downloading project from the web with the library manager, missing case sensitivity in text box configurations, solver failure didn't stop code generation, wrong port configuration in some corner cases....

All improvements and fixes are described in the release note.

Some Details

Generation of a gpdsc file for µVision v5.1 or greater

Starting with Keil μ Vision 5 the CMSIS PACK concept to manage SW components and device support packages has been introduced. This mechanism is now used to import the DAVE generated source and header files to a micro vision project.

DAVE provides a preference option to generate a gpdsc file upon code generation.

Preferences			
type filter text > General > C/C++ 4 Dave DAVE CE Preferenc > Help > Install/Update > Java > Run/Debug > TASKING > Team	DAVE CE Preferences		
	Solver Settings Solver Eclipse Path: Port No: Timeout (in sec) : Run solver after adding a	D:\MC_Tools\DAVE_3_1\3-10 10070 15 n app	
	Doc Generation Settings Doxygen Path: I Doxygen Config File Path:	D:\MC_Tools\DAVE_3_1\3-10\DAVE-3	
	Resource Manager Settings Use Latest Version Prompt user for shared resources creation Notify user when resource access fails Enable Logging Generate gpdsc file Online Help		
	URL: http://dave.infineon.com/Libraries/DAVEApps/DAVEAppsE		

Open the DAVE CE Preferences: -> Window -> Preferences -> Dave ->DAVE CE Preferences Then check the Generate gpdsc file option.

Upon Code generation a <project_name>.gpdsc file is generated. This gpdsc file can be opened in μ Vision 5 (v5.1 or greater) e.g. by a double click on this file. Then all DAVETM generated source and header files are referenced to this μ Vision project. Using the depended mechanism of CMSIS PACK the correct startup, header and linker files are added. Importing refers only to the generated source and header files- it doesn't included any user files like main.c. If required, these files have to be manually added to the μ Vision project. This is, for example the case if an existing DAVETM project that includes user sources should be imported to μ Vision. In such cases, also relevant project settings like include or library paths or preprocessor settings needs to be added in the μ Vision project.



GNU Debugger option

In addition to the free TASKING debugger, DAVE[™] includes now a GDB plug-in that use the GDB which is included in the GCC ARM distribution and GDB server from Segger. We modified the GDB plug-in to make it easy to use.

Debug Configurations	
Create, manage, and run configu	urations
▼ ∉ 🖻 🗶 🗊 1	Configure launch
	- Press the 'New
IFX GDB Debugging	📄 - Press the 'D
TASKING C/C++ Debugger	🗙 - Press the 'D
	🔆 - Press the 'Fi
	- Edit or view



When opening the debug configuration UI there are now two debug configuration options, one for the TASKING debugger and one for the GDB debugger.

By double clink one of the debug options, a debug configuration of the selected project will be created.

In cases GDB should be used the active project must also be selected.

The default configuration settings contains all device and interface information for the Segger GDB server. (Segger J-Link v480f or higher should be installed).

To start a debug session only the debug button has to be pressed.

If the TASKING debugger should be used a respective debug configuration has to be created by double click on TASKING.

The Embsys Register viewer to view the SFRs of the XMC microcontrollers has to be installed separately (see installation instructions in the download package).

Also iSystem provides a free debugger (winIDEA open) that can be easily installed in DAVE[™]. This debugger provides debug interface outside of Eclipse which provides powerful features like variable updates when the target is running or RTOS awareness. More details will be posted soon.

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