

What's New in v2.1

POWERPC SOFTWARE DEVELOPMENT TOOLSET

HIGHLIGHTS

- Additional compiler optimizations
- Improved look and feel of CrossView Pro debugger
- Grouping of registers
- Symbolic editing of registers
- Bubble-Spy™ technology for easy and quick inspection of variable contents
- Enable/disable Breakpoints
- Programmable Graphical Data Analysis
- Integrated flash programming support
- Support for the PLX IOP 480
- Support for IBM 405, Motorola 740/750, and 8240/8260

ADDITIONAL COMPILER OPTIMIZATIONS

The TASKING PowerPC™ compiler is continually being improved to ensure your code is highly optimized.

This release includes the following:

- Decrement and branch loop rewriting
- Inlined struct assignments and memcpy()
- Endian byte order reversals as load/store reversed and intrinsic byte swap functions
- Condition code simplified using instructions with record mode
- Interrupt functions in C
- Floating point FSEL conditional moves
- Floating point transcendental constant folding and strength reduction

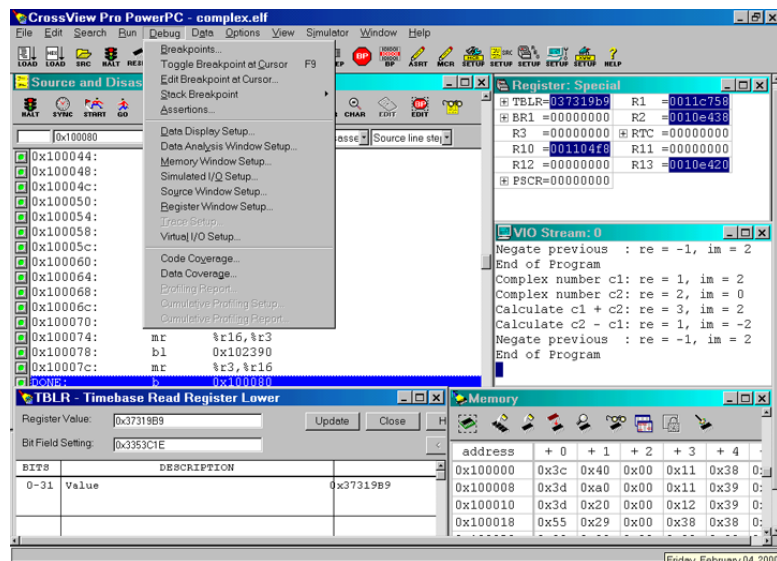
CROSSVIEW PRO DEBUGGER ENHANCEMENTS

The look and feel of the CrossView Pro debugger has changed to improve usability by adopting Windows standards and modifying dialog boxes. Enhancements include bubble help, flat toolbar buttons, clipboard support, window and dialog backgrounds that conform to desktop setup, and in-place editing in several windows. C source lines are now highlighted in mixed disassembly mode so you can clearly differentiate between source and disassembly. The Memory Window highlights the memory locations for which the content has changed so you can easily and quickly identify changes.

By positioning the mouse over a variable or function in the source window, the value of the variable or function is displayed in a popup box. This Bubble-Spy feature enables you to immediately view values by simply moving your mouse.

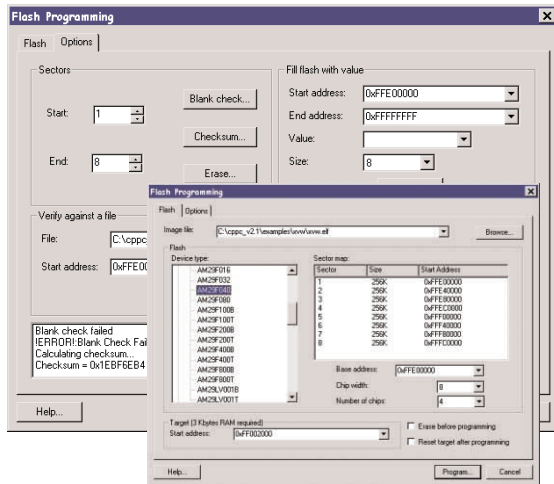
EXTENDED HANDLING OF REGISTERS

You can now group your registers into meaningful sets such as general purpose, floating point, or UART, so you can display the information needed at that moment. You can display multiple register windows so you can view additional information as needed. Symbolic editing of registers enables you to enter the register value by specifying the meaning of the bits in the register and configure Special Function Registers without using the data books.



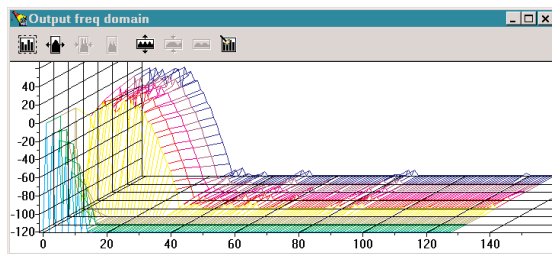
FLASH PROGRAMMING SUPPORT

Flash programming capabilities are now integrated with the CrossView Pro debugger. These capabilities allow in-circuit programming of Flash devices on the target board.



PROGRAMMABLE GRAPHICAL DATA ANALYSIS

The new Programmable Graphical Data Analysis features enable the quick detection of errors in your signal processing routines by reducing large sets of data into meaningful visual diagrams.



The CrossView Pro debugger can analyze the data according to pre-defined or user-defined specifications, and display the data the way you need it. You can also view the same set of data in several ways at the same time, for example in the time and the frequency domain. Five analysis types are available: FFT power spectrum, FFT waterfall, x-t plotting, x-y plotting, eye diagram.

SUPPORT FOR THE PLX IOP 480

The CrossView Pro debugger provides full debugging capabilities for the PLX IOP 480, which is an I/O Processor incorporating a PowerPC core, PLX's PCI and I2O Data Pipe Architecture™ technology, a flexible memory controller, and integrated CPU support peripherals. The IOP 480 provides a high level of integration and I/O performance to embedded systems and adapter card PCI designs.

PRODUCT PACKAGING & ORDERING CODES

Product Code Package Contents

Product Code	Package Contents
TK080-34*	EDE, C/C++ Compiler Toolset, CrossView Pro Debugger (SIM, BDM, ROM or ICE)
TK080-012	EDE, C/C++ Compiler Toolset
TK080-041	CrossView Pro ROM Monitor Debugger
TK080-043	CrossView Pro Extended Simulator Debugger
TK080-044	CrossView Pro BDM/JTAG for PowerPC
TK080-046	CrossView Pro Debugger for ICE

* This is a combination package that includes one EDE, C/C++ compiler toolset and one CrossView Pro debugger execution environment. The "*" indicates the debugger execution environment, for example: -341 for a ROM Monitor, -343 for a Simulator, -344 for BDM/JTAG, -346 for ICE.

A product evaluation package is available on request or downloadable from our web site.

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