The Tinker's Toolbox - Mark Moran of Atollic on Software Development Tools

Hosted by Alix Paultre, the Tinker's Toolbox is the Advantage Design Group's web-based interview show where we talk about the latest technology, components, and design issues for the electronic design engineering community.

In this podcast we talk to Mark Moran, US General Manager of Atollic, about software development tools and the advantages they provide the engineer. Atollic recently announced a major extension of its offering for embedded systems development tools with today’s unveiling of Atollic TrueSTUDIO for ARM. Engineers that are developing embedded systems on ARM processor-based microcontrollers can now benefit from the feature-set and integration advantages of the Atollic TrueSTUDIO development tool.

Right-click to download the podcast [1]

Here is a link to the podcast in case the play button is inoperative: Atollic Interview [1]

Here is a presentation on Atollic's TrueSTUDIO for ARM: Atollic Presentation [2]

Here is the press release on the product:

Atollic TrueSTUDIO is a world-class development and debugging tool that offers a state-of-the-art editor, an optimizing C/C++ compiler and a multiprocessor-aware debugger with real-time tracing. Now supporting ARM processor-based microcontrollers from many semiconductor manufacturers, the tool suite delivers a leap in software development team collaboration and developer productivity, and offers advanced features including ARM build and debug tools, Serial Wire Viewer (SWV) tracing and graphical UML diagram editors for model-based design and architecture. Also available to ARM developers are Atollic’s professional code-quality analysis and test-automation toolbox.

This new release of Atollic TrueSTUDIO targets the wide domain of ARM processor-based embedded systems, offering generic support for multiple ARM CPU cores, including: ARM7, ARM9, Cortex-M0, Cortex-M1, Cortex-M3 and Cortex-M4 processors. Additionally, Atollic TrueSTUDIO for ARM also includes device-specific support for an extensive list of ARM processor-based microcontroller families, including: Atmel AT91SAM, EnergyMicro EFM32, Freescale Kinetis, Fujitsu FM3™, STMicroelectronics STM32, Texas Instruments Stellaris and Toshiba TX.

“This is a welcome addition to the ARM embedded ecosystem”, said Ian Johnson, Product Manager, Processor Division, ARM. “Atollic TrueSTUDIO for ARM integrates a range of features which take advantage of the advanced features of the Cortex-M processors.”

“The launch of Atollic TrueSTUDIO for ARM is a significant milestone for Atollic”, added Magnus Unemyr, Vice President of Sales and Marketing at Atollic. “We have worked closely with ARM to ensure that we bring trusted and best-in-class development and debugging tools with wide ranging microcontroller target support to the large universe of ARM processor-based embedded systems engineers.”

Atollic TrueSTUDIO also offers multiple advanced features, such as: an ECLIPSE™-based IDE with a state-of-the-art editor; x86 C/C++ build and debug tools for development of PC command-line applications; parallel compilation and

multiprocessor debugging; and integrated version-control system client with revision graph visualization, enabling easy tracing of the history of code additions and revisions.

Additionally, Atollic TrueSTUDIO includes an integrated client for accessing popular bug databases like Trac and Bugzilla, and it includes integrated features for performing source code reviews and code review meetings too.

Included within the software bundle, and seamlessly integrated are demonstration versions of optional add-on products that provide professional code quality analysis and test automation. These are Atollic TrueINSPECTOR®, which performs static source code analysis, providing source code metrics and MISRA®-C:2004 coding standard compliance control. Atollic TrueANALYZER®, which performs dynamic execution flow analysis and provides rigorous test-quality measurements to the same level as typically required by for flight-safety-critical software. And finally, Atollic TrueVERIFIER™, which provides embedded test automation by performing source code analysis and auto-generate unit tests. The additional features are enabled by purchasing a key that unlocks these optional add-on products.

Atollic TrueSTUDIO for ARM also supports a wide range of evaluation boards and popular JTAG probes, including Atmel® SAM-ICE as well as ST-LINK from STMicroelectronics and J-Link from SEGGER Microcontroller.

For more information, visit www.atollic.com [3].

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