Become an Ultra-Low-Power Expert and Achieve Ultimate Power Optimization

Texas Instruments Incorporated (TI) announced another ultra-low-power industry first with the ULP Advisor software code analysis tool, teaching developers how to create the most energy-efficient, ultra-low-power applications with TI's MSP430 microcontrollers – and helping make the world greener one design at a time. Created by MSP430 microcontroller experts, the ULP Advisor tool is the first, true software-based, power-optimization teaching tool for microcontrollers that brings together decades of MSP430 microcontroller and ultra-low-power development experience. The ULP Advisor tool provides a static code analyzer that flags software code and offers ultra-low-power tips and tricks to help developers understand where to improve code, line by line, resulting in milliamps and nanoamps saved in designs for ultimate low-power performance. This hands-on teaching tool not only helps developers optimize current application code to achieve longer battery life, it also helps them avoid the same types of ultra-low-power pitfalls when designing future applications, making it an essential development tool for any MSP430-based project.

"Developing the industry's lowest power microcontroller with the 'Wolverine' MSP430 microcontroller platform wasn't enough for us," said Emmanuel Sambuis, general manager, MSP430 microcontrollers, TI. "It's important to us to help guide those using our devices through ultra-low-power development and ensure they are equipped to develop the most power-efficient designs. Our robust software offering, including the ULP Advisor code analysis tool, is a very important piece of development. 'Those who can't do, teach,' is a popular, yet outdated adage. Today, TI is proving that those who can do, also teach and create a new generation of experts around them."

Features and benefits of ULP Advisor software code analysis tool:

- Checks code against a thorough specification list of "ultra-low-power best practices," flagging and itemizing each "ultra-low-power rule violation" via a graphical user interface.
- Highlights areas of improvement and provides comprehensive resources on how to optimize applications for ultra-low power.
- Interactive, community-focused wiki offers information specific to each ultra-low-power rule, code examples, videos, tutorials, links to relevant technical documentation and promotes collaboration between experts and beginners where anyone can contribute ultra-low-power insight.
- Free software tool that supports all MSP430 devices and applications – integrated into TI's Eclipse-based Code Composer Studio™ integrated development environment (IDE) v5 and included in the latest version of IAR Embedded Workbench.

Texas Instruments Incorporated
www.ti.com [1]

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Links:
[1] http://www.ti.com/