

In-Circuit Power Measurements



[IAR Systems](#) [1] (Germany) has announced further enhancements to its innovative Power Debugging technology. The company has demonstrated new functionality in its development tool suite IAR Embedded Workbench for ARM. This functionality includes detailed in-circuit power measurements made possible by IAR Systems' new I-scope probe. Power Debugging provides developers with information about how the software implementation of an embedded system affects the system's power consumption. This technology is available using the:

- C-SPY Debugger included in IAR Embedded Workbench.
- IAR Systems' in-circuit debugging probe I-jet.
- The I-scope, which allows developers to gain knowledge of the power consumed by individual modules, detect if design flaws in the code are causing unnecessary power consumption, and possibly extend battery lifetime.

At any designated point on the target board, I-scope can measure current and voltage with 12-bit resolution at a sampling rate of up to 200 kHz. The information is transferred to I-jet, which synchronizes the data with the running program counter, enabling it to be graphed in real time and analyzed using the C-SPY Debugger. The analysis can be used to reveal the power consumption of individual functions and peripherals, which I/O activity causes current spikes, and how much power is consumed in various sleep modes.

For more information visit www.iar.com [1].

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Links:

[1] <http://www.iar.com>