

## Klocwork *Insight* in Your Process



The need to produce reliable and secure embedded devices – whether it’s a consumer device such as a mobile handset or a safety-critical device such as a defibrillator – has always been a paramount concern due to the high costs and risks associated with a field failure. As embedded devices become increasingly dependent on software, the need for more effective and sophisticated forms of software validation is rising at a dramatic rate.

More and more, embedded software developers are turning to static code analysis as an effective approach to automated software validation. Organizations such as Siemens Wind Power, Cisco, and Motorola use Klocwork static analysis tools to reduce costs and improve software reliability. Learn how your embedded software can benefit from the use of static code analysis by visiting [www.klocwork.com](http://www.klocwork.com). – **Klocwork**

## Bye-bye, build audits; hello, on-the-fly debug

Statistics from analysts much smarter than us report that up to 70 percent of design time is consumed in writing, debugging, debugging, and debugging software. You get the idea. So any kind of tool that contracts this iterative process – especially if it can help during the coding part of the process – might be a real money saver. We don’t care if you’re designing VME systems or coding the next PS3 game. The automated source code analysis tool called *Insight* from Klocwork specifically targets mission-critical systems, making it perfect for VME/VXS/VPX board-based designs. Of particular importance is that this desktop tool is intended for use by the developer during local build, instead of providing an after-the-fact audit build report.

Some of the tricks in *Insight* have spawned patents, including certain static analysis techniques and system-level collaboration to track bug fixes. The list of features is too numerous to describe here, but highlights include: identification and analysis of critical and security bugs (handy in mission-critical systems); IDE-based code analysis (no need to exit your favorite tool); detailed software architecture visualization; user-defined style or path analysis checkers; and bug tracking and reporting – locally or team-based. We are impressed with the potential of Klocwork’s *Insight*. (Tell us if you have any experience with this tool. We’d love to hear from you at [cciufo@opensystemsmedia.com](mailto:cciufo@opensystemsmedia.com).)

**Model: Insight**

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