axivion
stopping software erosion

TRUMPF extends use of the Axivion Bauhaus Suite for code and architecture checking

At its Schramberg location TRUMPF GmbH + Co. KG has for some time been using the Axivion Bauhaus Suite for code and architecture checking during the development of its embedded software and PC software for its laser systems. Now the technology and market leader for machine tools rolls out the use of the Axivion Bauhaus Suite to other parts of the company for software development quality assurance.

TRUMPF's software developers use the Axivion Bauhaus Suite to check both their existing software and newly written code. Style violations, metric anomalies, duplicated and dead code are systematically located and flagged up for programmers to deal with. The architecture check in the Axivion Bauhaus Suite allows TRUMPF's developers to verify their architecture.

TRUMPF uses the Axivion Bauhaus Suite for code and architecture checking of embedded software and PC software for laser technology, as well as in HMI development (see picture, image rights: TRUMPF)

Alongside the functions for safeguarding code quality, which can easily be integrated into their daily development work processes, TRUMPF personnel value the support they receive from the experts in Axivion's professional services team. Apart from the technical integration and customer-specific enhancement of the code and architecture checking tools, this support includes advice on and training in the efficient deployment of the Axivion Bauhaus Suite and protecting the long-term integrity of the codebase.

"We exhaustively evaluated a whole range of analysis tools," says Dr Stefan Staudt, Software Quality Manager at TRUMPF. "The Axivion Bauhaus Suite has impressed us during our daily development work due to its comprehensive open functions which could readily be adapted to our needs. On top of this we benefit from the practical support provided by Axivion's professional services team, who are there to help us during every phase of our software quality assurance."

To find out more about Axivion Bauhaus Suite and Axivion's software development quality assurance services go to www.axivion.com.

About TRUMPF

The high-technology company TRUMPF offers production solutions in the fields of machine tools, laser technology and electronics. We drive forward the digital networking of manufacturing industry through advice, platforms and software. TRUMPF is a technology and market leader in the field of machine tools for flexible sheet metal processing and in industrial lasers.
In 2015/16 the company employed over 11,000 people and generated turnover of 2.81 billion euros. With over 70 subsidiaries the Group is represented in almost every European country, as well as in North and South America and Asia. TRUMPF has production facilities in Germany, France, the UK, Italy, Austria, Switzerland, Poland, the Czech Republic, the USA, Mexico, China and Japan.

For further information on TRUMPF go to www.trumpf.com

About Axivion

Axivion, Stuttgart, Germany is a provider for complete solutions for protection from software erosion. The solutions include the development of innovative software tools – amongst others for static code analysis, architecture verification and clone management – as well as the development of methods, training concepts, and service and consulting for the implementation of measures. The core product of the company is the Axivion Bauhaus Suite, a tool suite for improvement of software quality and maintainability of software systems implemented in the programming languages Ada, C, C++, C#, and Java. Axivion's customers are developers of technical software across different industries, e. g. in the field of automotive, railway, electronics, information and telecommunication, medical, avionics, mechanical engineering, and industrial automation.
Axivion's MISRA checker covers 100 % of all automatically testable MISRA rules for the standards MISRA C:2004, MISRA C:2012, and MISRA C++:2008. Furthermore, the CERT® programming rules for secure software development are supported.
Since its foundation in 2006, Axivion maintains close research links to the University of Stuttgart, Germany, and to the University of Bremen, Germany to keep up with the newest trends in programming and code analysis research.

More information is available at www.axivion.com

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