

PRESS RELEASE

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Symtvision collaboration with iSYSTEM delivers improved tool integration and round-trip workflow

Symtvision support for BTF file format enables iSYSTEM single and multicore ECU trace data to be imported into its TraceAnalyzer and SymTA/S timing design tools for detailed visualization and further analysis, and exported back for target upload



Schwabhausen and Braunschweig, Germany – 1st December 2015. Symtvision, the global leader in timing analysis solutions for planning, optimizing and verifying embedded real-time systems, has extended its collaboration with iSYSTEM, a leading independent provider of embedded software debugging, analysis and test tools, resulting in the announcement of significantly improved integration between Symtvision's SymTA/S and TraceAnalyzer timing design tools and iSYSTEM's debug and trace tools and a round-trip workflow. The improved integration will better ensure the safety and reliability of automotive real-time software at the same time as speeding up development and reducing costs.

The collaboration delivers Symtvision tool support for Best Trace Format (BTF), the preferred file format for the iSYSTEM debug and trace tool, enabling trace data from single and multicore ECU's to be imported into TraceAnalyzer for visualization and analysis of timing traces and validation of ECU scheduling. Timing models generated from the traces can be processed further in SymTA/S to perform worst-case and statistical timing analyses, as well as to virtually change the scheduling and explore/optimize the overall software architecture. The optimized configuration can be passed back to the iSYSTEM debug and trace tool via an ECU configuration tool and uploaded to the target, completing the round-trip workflow.

Commenting on the improved tool integration and workflow, Dr. Kai Richter, CTO of Symtvision, said: "We have seen a lot of interest from companies wishing to take advantage of the integration of SymTA/S and TraceAnalyzer with iSYSTEM's debug and trace tools in order to ensure the real-time safety and reliability of software. What was manual yesterday is now fully automated with the new features and functionality. The technical and commercial benefit is obvious: at the same time speeding up development and reducing development costs."

"Engineers can only develop safe, failure-free code with quality tools," said Erol Simsek, CEO of iSYSTEM. "This is why we have further collaborated with Symtvision to make iSYSTEM's real hardware trace recordings and Symtvision's SymTA/S and TraceAnalyzer tools work together. This integration extends the capabilities of real-time tracing and offline timing analysis to a much higher level. It supports the embedded engineer to ensure that potential timing issues can be linked more quickly to the source of failure."

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About Symtavision

Symtavision® provides market-leading tools and associated consulting/engineering services for system-level timing design and timing verification – from early-phase estimation to final verification. Symtavision's tools are used extensively in automotive electronics with support provided for all industry standards as well as a variety of other industry sectors including the aerospace, automation, multimedia, telecommunications and transportation markets. Symtavision is headquartered in Braunschweig (Germany) with subsidiary offices in Munich (Germany), Cologne (Germany) and Troy (Michigan, USA), and is supported by a global network of distributors. Symtavision is an AUTOSAR development member and also a founding member of the Real-Time Experts Alliance. For more information visit: <http://www.symtavision.com>.

About iSYSTEM

iSYSTEM is a privately held company headquartered in Germany, close to Munich with an R&D and Production center close to Ljubljana, Slovenia. Founded in 1986, iSYSTEM is an independent manufacturer and provider of embedded software debugging, analysis and test tools. iSYSTEM's Software and Blue Box Technology stand for fast and easy single and multi-core processor hardware access via any kind of debug interface. No matter whether one is developing, debugging or testing embedded software on a real hardware, iSYSTEM's solutions work for you. The flexible integration and application of iSYSTEM solutions within the entire development process is enabled by open and public interfaces (APIs) that also allow engineers to automate timing analysis and testing. iSYSTEM maintains long-standing and close relationships with all major semiconductor, operating system and compiler companies worldwide. This guarantees quick tool availability and the highest level of integration. For more information visit: <http://www.isystem.com>.

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Media contacts for Symtavision:

Christiane Kapteina, Marketing Communications
Tel: +49 (0) 221 86 23 61. Email: kapteina@symtavision.com

Keith Mason, Humbug PR
Tel: +44 (0) 1305 849403. Email: keith.mason@humbugpr.com

Media contacts for iSYSTEM:

Stuart Cording, Technical Marketing Manager
Tel: +49 (0) 8138 6971-59. Email: stuart.cording@isystem.com

Sandra Peuker, Inside Sales/Marketing
Tel: +49 (0) 8138 6971-52. Email: sandra.peuker@isystem.com

Please send reader enquiries to:

Symtavision GmbH
Frankfurter Straße 3 C
38122 Braunschweig
Email: info@symtavision.com

Ref: SYM036
Words: 376

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