



dSPACE ANNOUNCES ADVANCED CODE GENERATION SOFTWARE

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Scheduled for launch in early 2003 by dSPACE, TargetLink 2.0 has numerous innovations to boost efficiency and cut ECU development time.

"TargetLink generates optimized C code directly from MATLAB®/Simulink®/Stateflow®," noted Kevin Kott, president of dSPACE's North American headquarters. "Major reductions in controller development time can be achieved by using TargetLink to minimize time-consuming and error-prone hand-coding."

Other efficiency-boosting features, according to Kott, include a new blockset concept that makes teamwork more efficient, and incremental code generation, which allows independent code generation for subsystems containing modified code.

"TargetLink is easy to integrate into existing development environments," Kott said. "In addition, dSPACE provides TargetLink Blocksets to allow Simulink users to create, exchange and modify models without the need for a TargetLink license. The new Blockset in TargetLink 2.0 can be installed and used on any computer that has MATLAB/Simulink installed. Models can be exchanged freely without the need for extra TargetLink licenses, allowing TargetLink to be used cost-efficiently by several developers at once.

Additionally, TargetLink 2.0 offers code coverage analysis at a mouse-click, without any other tool required.

The major new features of TargetLink 2.0 include the generation of code for OSEK/VDX* compliant real-time operating systems, the new dSPACE Data Dictionary for model-independent data management, and an innovative tool for automatic scaling of models by the worst-case method.

Support of OSEK/VDX-compliant operating systems is another of TargetLink 2.0's major new features. OSEK operating system objects and services can be specified on block diagram level, and TargetLink generates all the code.

The new dSPACE Data Dictionary is a central container that holds all the information relevant to code generation, independent of model partitioning. In the future, the dSPACE Data Dictionary will be connected to other tools within the dSPACE tool chain to ensure consistent data management throughout the entire development process. In conjunction with TargetLink 2.0, it simplifies data storage for complex ECU



development and supports project group teamwork.

Worst-case autoscaling dramatically shortens the time developers need for fixed-point scaling. Plant models and stimulus signals are no longer required. The developer can specify value ranges and data types at model boundaries. TargetLink then propagates these through the model, after which scaling is performed by using worst-case scenarios.

*OSEK/VDX is a standard for embedded real time operating systems.

About dSPACE

dSPACE is a market innovator and leading producer of engineering tools for embedded controller development and testing. The company provides integrated hardware and software for prototyping control algorithms, automatic generation of production code, controller testing, and engineering support services. dSPACE systems enable manufacturers of controllers and ECUs to dramatically reduce their development times and costs, while noticeably increasing product quality.

Founded in 1988, dSPACE has its headquarters in Paderborn, Germany, and engineering project centers in Munich and Stuttgart, Germany. In addition to its Novi, Mich. subsidiary, the company has subsidiaries in France and the United Kingdom, and representatives worldwide. Today, more than 7,000 dSPACE systems are in use worldwide, serving customers in the automotive, aerospace, agricultural, educational, engineering, robotics and noise & vibration industries. More information is available on the Internet at www.dspaceinc.com.

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