



## **Texas Instruments teams with Codito to offer programmability and scheduling solutions on TI's Digital Media Processor**

Texas Instruments (TI) has teamed up with Codito Technologies to provide existing and new customers of TI's system-on-chip (SoC) Digital Media processor with an automated software programmability solution. Codito's patent pending technology, Cascade, integrates a multiprocessor visual language and advanced automated scheduling techniques that enable rapid application development. "Codito's CASCADE tool automates and significantly improves the process of producing schedules for heterogeneous multiprocessor systems; completing in hours what once took days," said Mark Nadeski, TI's Software Development Manager for the Imaging and Audio Group. "Using the Cascade tool, TI can significantly reduce development time for complex concurrent algorithm scheduling."

Cascade is targeted towards existing and new customers of TI's Digital Media family of processors, and provides an easy upgrade and maintenance path for current users. Its ease-of-use gives digital camera and mobile video vendors the ability to develop differentiated offerings on the Digital Media processors using the Cascade environment. TI's customers that use the Cascade development environment will additionally benefit from protecting the software development investment while migrating to future generations.

Patanjali Somayaji, CEO, Codito Technologies, says application development on multi-core SoCs is a recognized challenge for the industry, and around 60% of the application development time is typically spent on synchronization, resource allocation and scheduling issues. Using Cascade's automated scheduling and profiling, TI's customers can now benefit from optimal performance of applications with significantly reduced application development time. This is a significant development in the global multicore chip ecosystem where developers are relieved from system level optimization and can focus on optimizations within the application.

### **About Cascade for TI's Digital Media processor**

CASCADE is Codito's technology platform for enabling programmability of multicore architectures. The CASCADE platform is based on Codito's research in the area of multiprocessor data-flow languages, program specification, resource scheduling and allocation. CASCADE enables application developers to focus on core development and optimizations by providing automated solutions to issues of synchronization and optimal processor allocation on complex embedded multiprocessors.

### **About Codito**

Codito Technologies is at the forefront of innovation in embedded software, providing end-to-end solutions across the entire systems software stack, right from programmability frameworks to custom tools, operating systems, and embedded application software. Our expert team provides cost effective systems software solutions to chip manufacturers, Systems on Chip (SoC) companies, Device Manufacturers, and OEMs.

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