PRESS RELEASE

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Sundance Unveils Floating-Point Library for TI Fixed-Point TMS320™ DSP Family

RENO, NEVADA (March 28, 2005) – Sundance Digital Processing Inc,, a worldwide supplier and manufacturer of advanced digital signal processing (DSP) and reconfigurable computing platforms, today announced the availability of the GDD600, a new and powerful library of floating-point DSP vectors and functions. Offering a broad range of callable functions, the GDD600 library significantly reduces the development time of many DSP applications targeting Texas Instruments' (TI) TMS320 DSP-based platforms. In addition to the hand-coded and optimized functions, the GDD600 includes a data conversion unit that facilitates the conversion of fixed-point and integer formats into floating-point units, as well as the conversion of floating-point units into integer formats.

“Encompassing over one hundred different functions and transforms, the GDD600 is remarkably beneficial for DSP applications written in either C-code or variants of C-code, enabling programmers to encode DSP and image-processing algorithms in an efficient and timely manner,” said Thomas Brooks, C6000 product marketing manager, TI.

With the ability to interchange between a fixed-point and a floating-point DSP processor, the GDD600 is a very helpful tool in the development of DSP real-time applications based on a variety of TI floating and fixed-point processors such as the TMS320C64x™ and TMS320C67x™ DSP generations.

"DSP applications are often coded modularly, which means the applications are divided into functions that are then called from the application. Most major DSP vendors have spent considerable time developing compilers that streamline these application developments," said Flemming Christensen, general manager, Sundance. "By providing application designers with the powerful GDD600 library of pre-optimized DSP functions, Sundance makes it possible for DSP programmers to maximize the benefits offered by compilers while reducing and simplifying application developments."

The GDD600 library comprises over 100 functions and macros that perform common DSP operations like Fast Fourier Transform, Fast Hartley Transform, Discrete Cosine Transform, FIR/IIR filters, coordinate transformations, vector operations, complex number arithmetic operations, pseudo-random numbers generation and data conditioning (spectral windows) operations. These operations are executed on the IEEE-754 floating-point format numbers, which are then implemented on a larger dynamic range that uniformly distributes relative errors, making it unnecessary for developers to scale accumulators, a common practice for fixed-point arithmetic.

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The hand-coded and optimized library includes various features such as interruptibility, which is essential for programming asynchronous systems. The GDD600 also has the ability for re-entrance, thus enabling the same code to be shared between tasks and threads. This makes the code useable in multitasking systems. Fast and accurate floating-point math simulation routines also allow the user to benefit from a faster processing floating-point array and scalar data.

Pricing for the GDD600 starts at $5,500. For more information about the GDD600 library, visit www.sundance.com

About Sundance

Sundance is a UK-based, ISO 9000 Compliant, independent company headquartered Chesham, U.K., with offices in the United States and Italy. The company designs, develops, manufactures and markets high performance signal processing and reconfigurable systems for original equipment manufacturers in the wireless and signal processing markets. Leveraging its multiprocessor expertise and experience, Sundance provides OEM with modular DSP and FPGA-based systems as well as data acquisition, I/O, communication and interconnectivity products that are essential to multiprocessor systems where scalability and performance are essential. With over fifty different modules and carriers for PCI, cPCI VME and Stand Alone platforms, Sundance is a solution provider to semiconductor, pharmaceutical and factory automation industries. Sundance, founded in 1989 by the current directors, is a Xilinx Xperts and MathWorks' Connection program member.

About the Texas Instruments Third Party Program

Sundance is a member of the TI TMS320™ third party network, the most extensive collection of DSP development support in the world. With more than 650 independent companies and consultants, TI's customers have easy access to a broad range of application software, development hardware/software and consulting services. For more information on the TI third party network, please visit: http://www.ti.com/3p.

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