



PRESS RELEASE

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FOR IMMEDIATE RELEASE

VisionGate Selects MathStar to Help Deliver Innovative Cell-CT™ Cellular Characterization Platform

*Medical Imaging Company Employs the Arrix® Field Programmable Object Array
(FPOA) Chip for its Industry-Leading Performance*

HILLSBORO, Ore., April 9, 2008 – MathStar, Inc. (NASDAQ: MATH), a fabless semiconductor company specializing in high-performance programmable logic, announced today that the company has been selected by VisionGate, Inc. to help develop a potentially groundbreaking medical imaging solution for cellular characterization employing 3D computed tomographic scanning on intact cells from patients at risk of cancer.

After extensive evaluation and benchmarking against other computing architectures, VisionGate selected MathStar's Arrix FPOA chip as the processing engine for its Cell-CT platform, which is entering investigational clinical trials.

“We are pleased to be working with VisionGate, the leading innovator in 3D diagnostic cellular imaging,” said Doug Pihl, MathStar's CEO. “MathStar's FPOA technology is uniquely suited for the needs of high-performance medical imaging applications.”

Dr. Alan Nelson, VisionGate's chairman and CEO, said, “MathStar's FPOA architecture provides the performance and flexibility to implement the computationally demanding filtering and backprojection algorithms we employ in our 3D imaging technology. We are excited to collaborate with MathStar as we advance our Cell-CT platform through clinical studies and toward product commercialization worldwide.”

MathStar's investment in the medical-imaging market includes a portfolio of digital signal processing (DSP) libraries, FPOA development software, and an FPOA evaluation system for application development. The Arrix family is MathStar's second generation of high-performance, re-programmable FPOAs that are uniquely well suited for advanced medical-imaging and other performance-demanding applications. For more information on the FPOA's use in medical imaging, visit <http://www.mathstar.com/Medical.php>.

About MathStar, Inc.

MathStar (NASDAQ: MATH) is a fabless semiconductor company offering best-in-class, high performance programmable logic solutions. MathStar's field programmable object array (FPOA) can process arithmetic and logic operations at clock rates of 1-gigahertz, which is up to four times faster than even the most advanced FPGA architectures in many applications. MathStar's Arrix family of FPOAs are high-performance programmable solutions that enable customers in the machine vision, high-performance video, medical imaging, security & surveillance and military markets to rapidly and cost effectively innovate and differentiate their products. FPOAs are available now and are supported by development tools, IP cores, application notes and technical documentation. For more information, please visit www.mathstar.com.

About VisionGate, Inc.

VisionGate, a privately held corporation in Washington State, has developed a novel 3D cellular characterization platform, the Cell-CT™, based on the company's broadly patented technology. The Cell-CT is capable of generating high resolution 3D information from intact cells for automated analysis of biomarkers. Cells are injected into capillary tubes that rotate to allow multiple viewing angles to compute the internal 3D structure; thus enabling, spatially defined densitometry of labeled molecular species and nuclear chromatin. VisionGate™ and Cell-CT™ are trademarks of VisionGate, Inc., Gig Harbor, WA. For more information, please contact Rob Bateman: bateman@visiongate3d.com.

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Statements in this press release, other than historical information, may be "forward-looking" in nature within the meaning of Section 21E the Private Securities Litigation Reform Act of 1995 and are subject to various risks, uncertainties and assumptions. These statements are based on management's current expectations, estimates and projections about MathStar and its industry and include, but are not limited to, those set forth in the section of MathStar's Annual Report on Form 10-K filed with the Securities and Exchange Commission on March 14, 2008 under the heading "Risk Factors." MathStar undertakes no obligation to update any forward-looking statements in order to reflect events or circumstances that may arise after the date of this release.