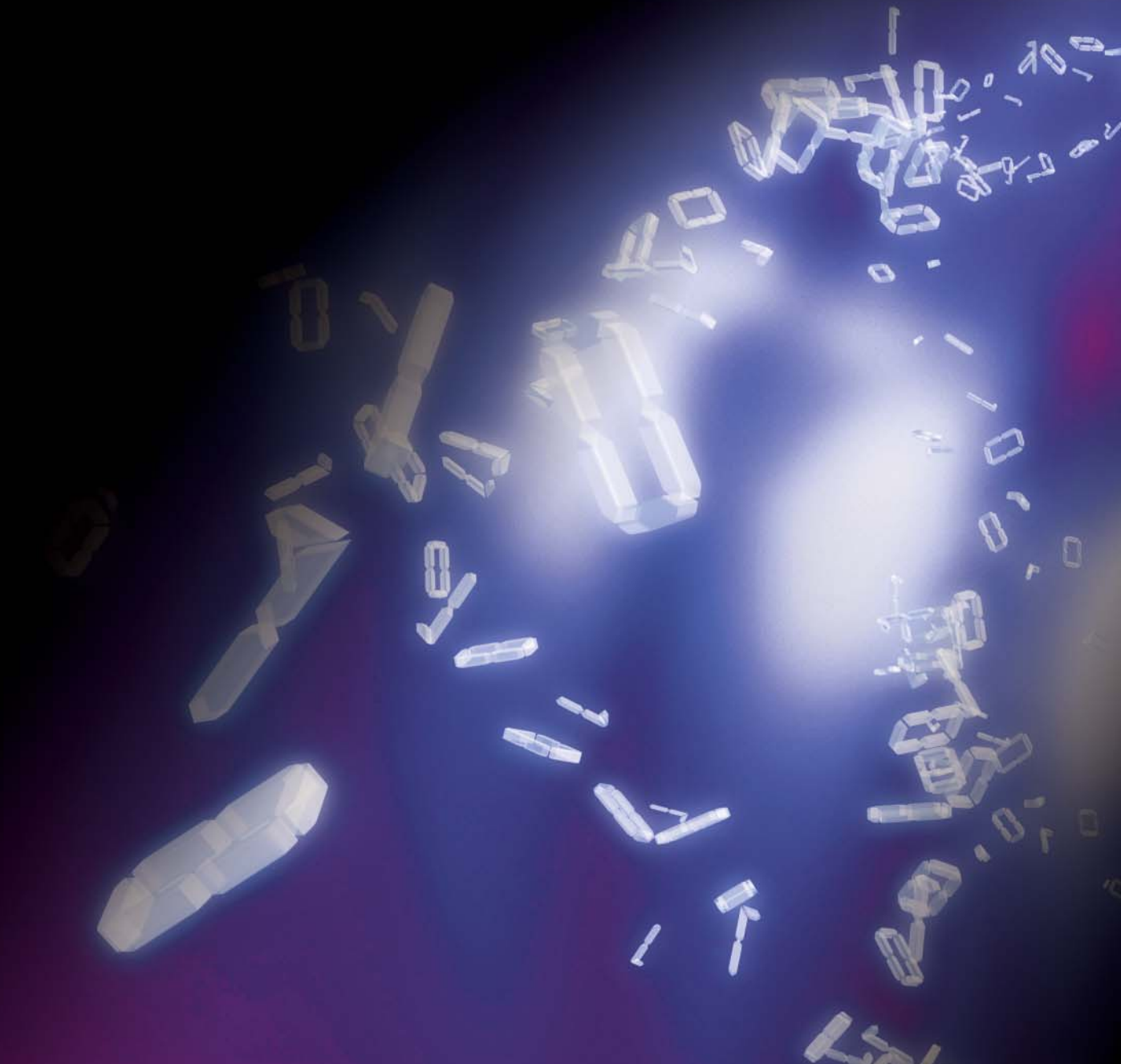


VSI/Pro[®]

HIGHLY OPTIMIZED MATH AND SIGNAL PROCESSING LIBRARY



FEATURES AT A GLANCE

Comprehensive range of signal processing and linear algebra functions

Optimization for the hardware platform provides "out of the box" productivity

Comprehensive debug mode of the library speeds application development

Open-standard API makes the development and long-term use of in-house algorithm libraries possible

PRODUCT OVERVIEW

VSI/Pro® is the premier math and signal processing library from Verari Systems®. VSI/Pro is fully compliant with the VSIPL (Vector, Signal, and Image Processing Library) standard, as set forth by the VSIPL Forum (www.vsipl.org). VSIPL is an open standard that provides an API (Application Programming Interface) to a library of scalar, vector, linear algebra, matrix and signal processing functions (FFT, Window, Filter and Convolution) targeted towards high performance embedded systems.

VSI/Pro is optimized to take advantage of single-instruction, multi-data (SIMD) operations on the processors that support AltiVec™ and SSE. These are the popular G4, G5, Intel® Xeon® and AMD Opteron™ processors that are common to both embedded and cluster computing environments. VSI/Pro provides a portable, open-standard, high performance out-of-the-box solution that accelerates the development of signal and image processing applications and virtually eliminates the complexities of hand tuning for specific hardware/operating system configurations.

The library supports a wide range of signal processing and linear system functions including 1D, 2D and 3D FFTs, 1-D and 2-D convolutions and correlations, both FIR and IIR filters and windowing functions (Hanning, Chebyshev, Blackman and Kaiser).

VSI/Pro provides excellent performance optimization for the complete range of DSP applications on PowerPC®/AltiVec (both G4 and G5) and x86/SSE architectures (both 32-bit and 64-bit). As a rule of thumb, our highly optimized SIMD (AltiVec/SSE) implementations provide a factor of six to eight times performance boost compared to non-SIMD implementations.

VSI/Pro supports the following operating systems on the G4 processor: VxWorks, LynxOS 4, Mercury™ OS, Linux, Mac OS X and OSE. On the latest G5/PPC970 based systems, both Mac OS X and Linux are supported. In addition, libraries are available for both Linux and LynxOS 4 on Intel Xeon and for Linux on AMD Opteron-based platforms.

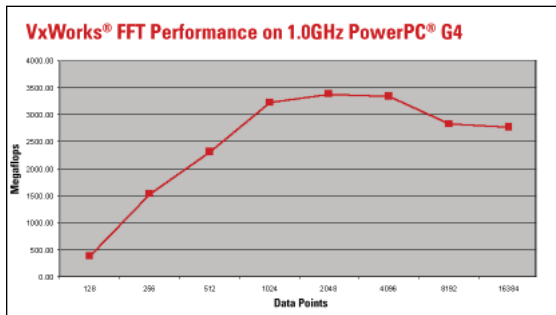
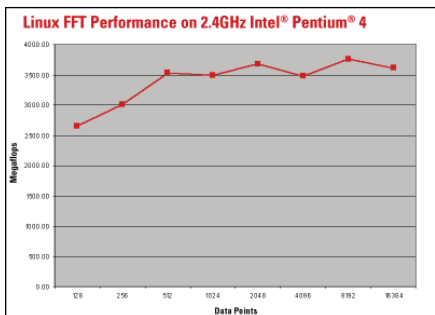
ABOUT VERARI SYSTEMS

Verari Systems, Inc. is the premier developer of energy efficient data center and desktop consolidation platforms utilizing independent blade-based compute and storage solutions that are defining a new era in the green data center. Verari Systems is a market leader in blade storage and energy efficient platforms. Organizations such as Wachovia, Akamai, Microsoft, Qualcomm, CCGVeritas, Harris, Lockheed Martin, Northrop Grumman, and Sony Imageworks, as well as top universities and research institutions worldwide, are among the customers who have chosen Verari Systems' line of award-winning high density blade storage and servers, rack-optimized platforms and software solutions.

Specifications

VSI/Pro® Availability

Architecture	Operating System	Availability	Functionality
G4/AltiVec™	VxWorks®	Now	Optimized core profile
G4/AltiVec	LynxOS™ 4	Now	Optimized core profile
G4/AltiVec	Linux	Now	Optimized core profile
G4/AltiVec	Mac OS X	Now	Optimized core profile
G4/AltiVec	MC/OS RACE	Now	Optimized core profile
G4/AltiVec	MC/OE RACE	Now	Optimized core profile
G4/AltiVec	OSE	Now	Optimized core profile
G5/AltiVec	Linux	Now	Optimized core profile
G5/AltiVec	Mac OS X	Soon	Optimized core profile
Intel® Pentium® 4	Linux	Now	Optimized core profile
Intel Pentium 4	LynxOS 4	Now	Optimized core profile
AMD Opteron™ 64-bit	Linux	Now	Optimized core profile



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The VSI/Pro product line also includes VSI/Pro Image and VSI/Pro Magnum. To learn more about these products, please contact a sales representative via email at sales@verarisoft.com or call 1-866-851-5244.



Verari Systems 9449 Carroll Park Drive, San Diego, CA 92121 USA Phone 858-874-3800 or 888-942-3800 Web www.verari.com

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