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Mitrionics Demonstrates 60x faster NCBI BLAST and Acceleration Technologies at International Supercomputing Conference

Dresden, Germany – June 26, 2007 – Mitrionics™, Inc., developer of the Mitrion™ Software Acceleration Platform and the Mitrion Virtual Processor, will, together with SGI®, developer of the SGI® RASC™ RC100 and SGI BLAST accelerator, be demonstrating its latest FPGA Supercomputing technologies at the International Supercomputing Conference this June 26-29, 2007 in Dresden, Germany. Located in booth number B-33, Mitrionics will be featuring its Mitrion Development Platform for accelerated applications, the Mitrion Virtual Processor, and the recently released Mitrion-accelerated NCBI BLAST-n bioinformatics application. Leveraging powerful and energy-efficient FPGAs from Xilinx, the ultra-fast memory subsystem in SGI® Altix® servers and the Mitrion Virtual Process, the latest version of Mitrion Accelerated NCBI BLAST is able to run 60 times faster in sustained operation on one FPGA as compared to running on one core of a 2.8GHz Dual Core AMD Opteron Processor 8220 SE.¹

“We are excited to share our progress in FPGA acceleration of real world applications with this year’s attendees as well as our associates in the industry,” stated Anders Dellson, CEO of Mitrionics, Inc. “We now have a number of customers, such as U.S. Naval Research Laboratory, National Cancer Institute, and University of Arizona, running supercomputing applications developed and accelerated by Mitrionics. The Mitrion-accelerated BLAST has created very strong customer interest, and we will continue to evolve our technology leadership in FPGA-Supercomputing by expanding the Mitrion platform and bringing more Mitrion-accelerated applications to the market.”

“The results achievable with Mitrionics' running on the SGI RC100 are exceptional,” said Michael Brown, SGI sciences segment manager. “With the SGI RASC Appliance for Bioinformatics, we are achieving the industry's fastest performance on BLAST-n while only having to change roughly 1,200 lines of C. This brings breakthrough levels of performance within reach of application developers in many disciplines.”



The SGI RASC Appliance for Bioinformatics Featuring the Mitrion Accelerated BLAST-n is far more cost- and energy- efficient than traditional rack server deployments, because it relies on FPGA technology for the bulk of BLAST-n query processing. In fact, the SGI RASC Appliance for Bioinformatics consumes up to 90 percent less power than an Opteron- or Intel® Xeon® processor-based rack system. This equates to lower cost of ownership and longer asset life.

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SGI, also known as Silicon Graphics, Inc. (OTC: SGID), is a leader in high-performance computing. SGI helps customers solve their computing challenges, whether it's sharing images to aid in brain surgery, finding oil more efficiently, studying global climate, providing technologies for homeland security and defense, enabling the transition from analog to digital broadcasting, or helping enterprises manage large data. With offices worldwide, the company is headquartered in Mountain View, Calif., and can be found on the Web at www.sgi.com.

About the Mitrion Platform

The core of the Mitrion Platform is the fine-grained, massively parallel Mitrion Virtual Processor. Together with the Mitrion-C parallel programming language, it offers a unique software-centric acceleration platform for FPGA-based computing systems. The Mitrion Virtual Processor has a unique architecture that adapts to each software application it executes in order to maximize performance.

About the International Supercomputing Conference

The International Supercomputer Conference (ISC) - the leading supercomputing event in Europe - constitutes the premier venue for gaining an international perspective in the field of High Performance Computing (HPC). World-class speakers from high-level research, industry and business come to share their experiences and visions stimulating participants to learn about and to discuss the latest trends in the HPC world. As a result, the ISC Conferences have created a unique atmosphere of collaboration and cooperation.

About Mitrionics

Founded in 2001, Mitrionics, Inc. is the technology leader in the exciting new field of FPGA Supercomputing which provides higher processing power and lower energy consumption than clusters of computer systems. The



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company's Mitrion Virtual Processor and Mitrion Software Development Kit provide cost effective FPGA Supercomputing power to organizations for their most critical applications. Mitronics has key industry relationships with Cray, Nallatech, and Silicon Graphics. For more information, visit the company Web site at www.mitronics.com, or call 310-558-9495, or email: info@mitronics.com.

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¹ In internal tests, the following benchmarks have been run:

- a. Searching the Unigene Human and Refseq Human databases (6,733,760 sequences; 4,089,004,795 total letters) using a small subset of the Human Genome U133 Plus 2.0 Array probe set from Affymetrix (3534 sequences; 88,350 total letters).

SGI Altix/RC100 using 1 FPGA = 0h 09m 29s

2.8GHz Dual Core AMD Opteron Processor 8220 SE using 1 core = 9h 30:m 7s

Speedup: 60.1x

- b. Searching the Unigene Human and Refseq Human databases (6,733,760 sequences; 4,089,004,795 total letters) using a subset of the Human Genome U133 Plus 2.0 Array probe set from Affymetrix (586,460 sequences; 14,661,500 total letters).

SGI Altix/RC100 w/ 4 FPGAs = 7:09

SGI Altix/RC100 w/ 8 FPGAs = 3:35

SGI Altix XE w/ 64 cores = 9:43

Speedup (comparing 1 core to 1 FPGA): 21.7x

The tests were run using the following system configurations:

SGI Altix/RC100: 1.6GHz Altix/RC100 - 8 x 1.6GHz/24MB L3 Dual Core Intel Itanium 2 Processor, 4 x RC100 (8 FPGAs), 64GB memory, SuSE Linux 2.6.16.21-0.8-default

3GHz Altix XE 210 - 32 x 3GHz/4MB L3 Dual Core Intel Xeon 5160 Processor, 16GB memory, SuSE Linux 2.6.16.21-0.8-smp

2.8GHz Opteron - 4 x 2.8GHz Dual Core AMD Opteron Processor 8220 SE, 32GB memory, SuSE Linux 2.6.16.21-0.8-smp