

Scalable Informatics Joins with Fixstars to Create an All-in-One Cell PXCAB, NVIDIA Tesla™, & Massive Storage Deskside System

CANTON, Michigan - 25 March 2009 - Scalable Informatics, provider of custom HPC systems, solutions, and services has partnered with Fixstars Solutions for the inclusion of the Fixstars GA-180 (IBM PXCAB) with the Pegasus-GPU NVIDIA Tesla™-powered high performance workstation.

The Pegasus series workstation, coupled with the NVIDIA Tesla platform, provides unrivaled computing power for GPU-based application acceleration.

The Pegasus-GPU is now available with both NVIDIA Tesla and IBM PXCAB PCIe cards, combining the best of both accelerated computing technologies into a single deskside workstation -- industry leading NVIDIA GPU + IBM PowerXCell 8i, all in one box.

Kai Staats, COO, Fixstars Solutions states, *"Dr. Landman and his team have been working on accelerated computing systems for years. After Scalable Informatics expanded the functions of their high capacity, high performance workstations with heterogeneous accelerated processing using GPUs, adding high performance, Cell-based processing to this line was a natural extension. It's a perfect synthesis of heterogeneous acceleration technologies. We are excited by this collaborative effort as it moves to satisfy a growing demand for a multi-core solution which implements a unified OpenCL code base."*

The Pegasus-GPU+Cell is the first-to-market product offering both GPU and Cell technology in a single box. Combining up to 3 accelerator systems with a high performance computing substrate, it features up to 16 processor cores, up to 256 GB of RAM, and up to 40x 2.5 inch SATA/SAS drives. This deskside system provides tremendous computational and I/O power tightly coupled to accelerated computing with GPUs and Cell processors.

Developers may use the Pegasus-GPU+Cell system to leverage the power of both the GPU and Cell processors, providing a powerful heterogeneous acceleration platform. End-users can leverage GPU and/or Cell optimized applications, as well as adapting their existing applications for acceleration.

Dr. Joseph Landman, Founder and CEO of Scalable Informatics, states, *"The Pegasus-GPU system has differentiated itself in design by leveraging a more powerful underlying computing substrate. This allows end-users to avoid the limitations of less powerful systems. Working with the Fixstars team, we have now extended a powerful GPU-accelerated deskside supercomputer by leveraging Cell technologies to provide even more raw computational horsepower to end-users and developers. Moreover, working with Fixstars means that we can now leverage the excellent capabilities and tools of YDL as well as their extensive capabilities for porting and tuning Cell-based codes."*

About the Pegasus-GPU+Cell deskside system:

- 4 to 16 AMD or Intel Cores
- 8 to 256 GB System Memory
- Linux, Windows with PCI driver for PXCAB
- Solaris, BSD using gig-e to talk to PXCAB
- Multiple NVIDIA GPU options
- One or more Fixstars GA-180 (PXCAB)
- Multiple PCI-e slots
- USB 2.0, Firewire 800

- DVD+/-RW
- Multiple Gigabit ports
- 10 GbE/Infiniband options
- 500GB to several TB fast local disks; up to 40 drive bays of 2.5-inch SATA/SAS drives, inclusive of SSD drives

The Pegasus-GPU+Cell system is ideal for computationally-intensive scientific research and code, leveraging highly optimized routines for chemistry, informatics, geophysics, molecular dynamics, physics, and bio-medical computing.

Fixstars offers Cell-optimized vertical market solutions for Financial Modeling, Digital Media & H.264 compression, Health Care & Life Sciences, and Manufacturing Inspection. More information is available at us.fixstars.com

The Pegasus-GPU+Cell is immediately available from Scalable Informatics:

<http://scalableinformatics.com/pegasus-gpu-cell>

ABOUT SCALABLE INFORMATICS

Scalable Informatics is a privately-owned high performance computing solutions company focusing on delivering pragmatic solutions to computational and storage problems. Scalable Informatics designs, builds, and supports high performance storage, clusters and workstation hardware, scalable and accelerated software, and offers support, consulting and development services. For more information, contact Scalable Informatics at 734.786.8423 or visit: www.scalableinformatics.com

ABOUT FIXSTARS, INC.

Fixstars is the pioneering company of the Cell Broadband Engine, high performance multi-core processor. Fixstars enables the increase in performance of Cell-based operations through provision of a complete, integrated ecosystem with specific turn-key products for Finance, Medical, Manufacturing, and Digital media markets. Founded in 2002, Fixstars is headquartered in Tokyo, Japan and in October of 2008, acquired Terra Soft Solutions and the world renowned Yellow Dog Linux. For more information, visit us.fixstars.com

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