



**News Advisory**

**Convey's Innovative Hybrid-Core Computers  
Accelerate Life Sciences Applications**

***Convey Computer Announces New Life Sciences Business Unit***

**RICHARDSON, Texas (February 22, 2010)** – Convey Computer™ Corporation announced today it is creating a new Life Sciences Business Unit headed by Dr. George Vacek, who brings more than 15 years of experience in computational life sciences to his new role. Dr. Vacek joins Convey from the Hewlett-Packard Company where he developed scientific research solutions within the High-Performance Computing Group.

“We are excited to have George join Convey and share his expertise and talents with our young company. Convey’s adaptable, FPGA-based architecture is a blank slate for application innovation and is especially well suited for life sciences applications,” said Bruce Toal, CEO and co-founder of Convey Computer.

In 2008, Convey introduced a revolutionary computer architecture – hybrid-core computing – to the HPC market. Convey’s system, the Convey HC-1™, tightly integrates advanced computer architecture and compiler technology with commercial, off-the-shelf hardware – namely an Intel® Xeon® processor and Xilinx® Field Programmable Gate Arrays. The systems help customers reduce energy costs associated with high-performance computing, while boosting application performance by as much as 25x over industry standard servers. Additionally, Convey systems are easy for programmers to use because they provide full support of an ANSI standard C, C++ and FORTRAN development environment.

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Since the introduction of the HC-1, Convey has engaged with leading life sciences customers including Lawrence Berkeley Lab, which is using the HC-1 system to solve challenging problems such as graph theoretical calculations required for gene cluster analyses. Additionally, the University of California, San Diego (UCSD) uses the HC-1 to reduce the time-to-completion from months to days on its bioinformatics application, InsPecT/MS-Alignment. This application supports one of the most time-consuming tasks in proteomics – unrestricted “blind searches” of massive protein databases to find post translational modifications (PTMs). Prior to using Convey’s HC-1, such computationally intense searches were simply too slow to be feasible on a large scale.

“We are focusing much of our efforts on genomics because of the large data volumes being generated by the current generation of sequencers. And, as sequencer technology continues to improve, data volumes will continue their dramatic growth. Although genomics applications generally run fine on x86 clusters, it can be cost prohibitive to quickly complete the data analysis required to support genomics research,” explains Dr. Vacek.

“Hybrid computing is more cost effective, especially when you consider the power, cooling, floor space, and management demands of the infrastructure. Furthermore, increased compute performance provides fundamental improvements in research quality by allowing searches of larger databases, multiple sequence queries, and the use of more accurate search methods. In turn, extensive and expensive metagenomics projects and genome-wide association studies become much more manageable.”

Convey is working with customers and partners, including instrument manufacturers, on impacting multiple segments of the genomics workflow ranging from primary analysis, reference based and de novo assembly, and downstream research areas such as phylogenetics.

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**About Convey Computer Corporation**

Based in Richardson, Texas, Convey Computer breaks power, performance and programmability barriers with the world's first hybrid-core computer—a system that marries the low cost and simple programming model of a commodity system with the performance of a customized hardware architecture. Convey brings decades of experience and intellectual assets to delivering performance problem solving. Its executive and design teams all come from successful backgrounds of building computer companies, most notably Convex Computer Corporation and Hewlett-Packard. Convey Computer investors include Braemar Energy Ventures, CenterPoint Ventures, Intel Capital, InterWest Partners, Rho Ventures, and Xilinx. More information can be found at: [.conveycomputer.](http://conveycomputer.com)

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