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## Georgia Institute of Technology Accelerates Drug Discovery With New IBM Supercomputing Cluster

### IBM BladeCenter Innovation and Performance Helps Shorten Time to Market for New Drugs | Georgia Tech and BellSouth to Host One of the Southeast's Most Powerful Supercomputing Clusters

/noticias.info/ IBM and the Georgia Institute of Technology today announced that one of the world's most powerful supercomputing clusters will anchor Georgia Tech's new Center for the Study of Systems Biology.

The Center will use IBM technologies to advance research into new drugs for the treatment of some of today's most life-threatening diseases, including cancer. The Center's research will be headed by one of the world's leading systems biologists, Dr. Jeffrey Skolnick, the Georgia Research Alliance Eminent Scholar in Computational Systems Biology.

Funded by \$8.5 million in grants from the State of Georgia, the Georgia Research Alliance and the National Institutes of Health, the new Center for the Study of Systems Biology merges Dr.Skolnick's biomedical research expertise with IBM's high-performance computing capabilities to create a brand new supercomputer. The new supercomputing cluster running Linux will be among the fastest in the world, and one of the most powerful among research universities in the Southeastern United States. The cluster is hosted by BellSouth's world-class facilities in Midtown Atlanta.



"By using IBM technology for our research, we can significantly shorten the time to market for new drugs," said Dr. Skolnick. "Systems biology integrates mathematics, physics, chemistry and biology with advanced, high performance computing and engineering. Bioinformatics and systems biology allow us to utilize the vast information growing out of the sequencing of the human genome, enabling drug developers to reduce the number of compounds they must screen by a factor of 10."

The 1000-node Cluster 1350 system built on IBM BladeCenter® systems and powered by dual-core AMD Opteron™ processors is capable of performing more than 8.5 trillion calculations per second, which would place it as the world's 41st most powerful supercomputer based upon the November 2005 TOP500 list ([www.top500.org](http://www.top500.org)) of supercomputers. The system performance and scalability will offer students and faculty the ability to quickly and accurately analyze complex DNA and proteins to determine the biological and chemical processes of human cancer genes and proteins, to aid in the development of more targeted drugs to treat such diseases.

"Universities today are looking for the fastest, most innovative and cost-efficient systems to help their intellectual communities translate the research they generate into viable information for the commercial market," said Doug Balog, vice president, IBM BladeCenter. "With the Cluster 1350 system based on the AMD Opteron LS20 IBM BladeCenter, students and faculty of Georgia Tech are gaining the processing power and system resources they need to make more accurate decisions in research and raise the profile of the Institute among the nation's most elite research facilities."

"Only the most technologically savvy universities are able to compete in the field of drug discovery and bioinformatics," said Mike Cassidy, president and CEO of the Georgia Research Alliance. "Georgia Tech's focus on top-of-the-line technology and research facilities and the attraction of Dr. Jeff Skolnick and other world-class scholars will raise its presence in this competitive market and attract some of the nation's brightest students to join our research team to advance medicines that will improve the well-being of people everywhere."

BellSouth worked closely with Georgia Tech and IBM to design a unique, reliable hosting environment to support the high power density supercomputing cluster.

"With our hosting background, we had the flexibility and experience to quickly create a one-of-a-kind solution that could support Georgia Tech, IBM and the supercomputing cluster that will power the groundbreaking research of Dr. Skolnick," said Bill Smith, BellSouth's Chief Technology Officer.

The new supercomputer, capable of a peak performance of more

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than 16 TeraFlops, consists of a cluster of 1,000 AMD Opteron processor-based LS20 nodes for IBM BladeCenter systems (total of 4,000 core processors) running Red Hat Linux 4 on the infrastructure nodes and Scientific Linux on the compute nodes. The supercomputer forms the basis of the IBM Cluster 1350, a pre-packaged and tested super-cluster that is ultra-dense and easy to manage.

"AMD64 technology delivers the processing power needed to run some of the most demanding supercomputers, without sacrificing performance-per-watt efficiencies," said Kevin Knox, vice president, Worldwide Commercial Business, AMD. "By working closely with IBM on their AMD Opteron processor-based BladeCenter cluster, we feel confident that researchers at Georgia Tech will be better equipped to execute against demanding timelines and ultimately help bring critical drugs and research to market even faster."

The technology from IBM also includes 28 terabytes of IBM DS4800 storage and 20 terabytes of IBM DS4100 storage to house the large volumes of research data and provide a disaster recovery backup. Force10 TeraScale E-Series family of switch/routers are also integrated into the IBM BladeCenter cluster to provide resilient interconnectivity enabling predictable cluster performance and scalability that will allow Georgia Tech to seamlessly expand its cluster.

"Network resiliency is key to ensuring computing cycles are not interrupted and that researchers gain the reliable computing power they need to efficiently analyze massive amounts of data," said Marc Randall, president and CEO at Force10 Networks. "IBM has taken its leading server technology and combined it with our leading switch/router in a single high performance cluster solution to provide organizations like the Center for the Study of Systems Biology with the computing power they require for advanced scientific research."

Also included with the solution is IBM Rear Door Heat eXchanger (code named "Cool Blue,") a technology component that can use the existing chilled water supply for air conditioning systems already located in the majority of customer datacenters to reduce server heat emissions into the room by up to 55 percent. Georgia Tech has deployed "Cool Blue" on 12 racks, reducing noise and easing the burden on existing air conditioning units. The Rear Door Heat eXchanger can reduce first-time installation costs by as much as 40 percent while lowering energy costs by almost 15 percent.

The cluster solution helps increase the overall performance of the Center's datacenter while lowering its total cost of ownership. The speed and flexibility of the systems also reduce the time it takes to complete research projects, allowing the Center more time to explore new commercial opportunities in the fields of pharmaceutical science and healthcare.

#### About IBM

IBM is the world's largest information technology company, with 80 years of leadership in helping businesses innovate. Drawing on resources from across IBM and key Business Partners, IBM offers a wide range of services, solutions and technologies that enable customers, large and small, to take full advantage of the new era of e-business. For more information about IBM, visit [www.ibm.com](http://www.ibm.com). IBM and BladeCenter are trademarks of the International Business Machines Corporation in the United States and/or other countries. For a complete list of IBM Trademarks, see [www.ibm.com/legal/copytrade.shtml](http://www.ibm.com/legal/copytrade.shtml).

#### About BellSouth Corporation

BellSouth Corporation is a Fortune 100 communications company headquartered in Atlanta, Georgia. BellSouth has joint control and 40 percent ownership of Cingular Wireless, the nation's largest wireless voice and data provider with 54.1 million customers. More information about BellSouth can be found at <http://www.bellsouth.com/>.

#### About the Georgia Institute of Technology

The Georgia Institute of Technology is one of the nation's premiere research universities. Ranked ninth among U.S. News & World Report's top public universities, Georgia Tech educates more than 17,000 students every year through its Colleges of Architecture, Computing, Engineering, Liberal Arts, Management and Sciences. Tech maintains a diverse campus and is among the nation's top producers of women and African-American engineers. The Institute offers research opportunities to both undergraduate and graduate students and is home to more than 100 interdisciplinary units plus the Georgia Tech Research Institute. During the 2004-2005 academic year, Georgia Tech reached \$357 million in new research award funding. The Institute also maintains an international presence with campuses in France and Singapore and partnerships throughout the world.

#### About the Georgia Research Alliance

A model public-private partnership between Georgia universities, business and state government, the Georgia Research Alliance helps build Georgia's technology-rich economy in three major ways: through attracting Eminent Scholars to Georgia's research universities; through improving laboratories and equipment at these research universities; and through converting research into products, services and jobs that drive the economy. To learn more about GRA, visit [www.qra.org](http://www.qra.org).

#### About Force10 Networks

Force10 Networks is the pioneer in high performance switching and routing. Based on a revolutionary system architecture that delivers best-in-class resiliency and massive scalability, Force10's TeraScale E-Series switch/routers ensure predictable application performance, increase network availability, and reduce operating costs. Today, many of the world's largest Gigabit Ethernet and 10 Gigabit Ethernet networks depend on Force10 Networks. For additional information, please visit the company's website at [www.force10networks.com](http://www.force10networks.com).

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