Don't blink . . . we're moving fast!

LSU's World-Class Supercomputer

LSU's world-class supercomputer will significantly raise the University's I.T. visibility, particularly in science and engineering technology research.

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SuperMike was acquired by LSU's **Center for Applied Information Technology and Learning (LSU CAPITAL)** through appropriated funds from the Louisiana legislature and is housed on campus in the Frey Computing Services Center.

The second fastest computer in the academic world and among the fastest in the world belongs to Louisiana State University. SuperMike, as the super-computer system is called, was purchased with funds from Governor M.J. "Mike" Foster's information technology (I.T.) initiative. This initiative focuses on bringing technology and research to the forefront at Louisiana's universities and economic development to the state. SuperMike, with its advanced capabilities, will help to position LSU as a top research institution, and lure more top faculty and students to the University.
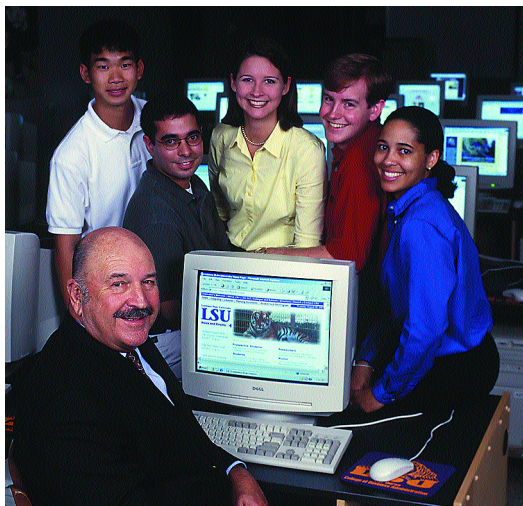
LSU's supercomputer highlights
- composed of 1,024 Intel® Xeon DP processors
- clocks at 2.2 TeraFlops
- networked tightly together via Myricom's myrinet
- acquired through Atipa Technologies
- contains one terabyte of RAM and more than 40 terabytes of disk storage

SuperMike is a general-purpose parallel supercomputer that can be used to help solve a wide variety of challenging science and engineering problems. Key areas of research that require massive amounts of computer power not previously available on campus will immediately begin taking advantage of SuperMike's computational ability.

Research using SuperMike
- Modeling of coastal erosion and storm damage by researchers in LSU's Hurricane Center
- Modeling the structure and behavior of complex molecules that are of interest to the local petrochemical industry
- Modeling the merger of binary black holes to complement ongoing experimental astrophysics activities at the LIGO (Laser Interferometer Gravitational–Wave Observatory) in Livingston Parish
- Modeling of cooling flows in advanced gas turbine engines by the TIER (Turbine Innovation and Energy Research) Center
- Modeling the interaction of protein structure and function with sequence variations in living organisms by LSU's genomics group

LOUISIANA STATE UNIVERSITY
Center for Applied Information Technology and Learning (LSU CAPITAL)