North Carolina Supercomputing Center

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North Carolina Supercomputing Center
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Description

The mission of the North Carolina Supercomputing Center (NCSC) is to promote the growth of computational science, education, and research in North Carolina institutions and to foster the economic development of North Carolina through high-performance computing and its applications. The primary focus of NCSC is to promote economic growth, computational science and education in North Carolina through cooperative agreements with industry and research collaborations with academic institutions. NCSC is a division of the Microelectronics Center of North Carolina (MCNC), a not-for-profit company. NCSC offers high-performance computing on the following platforms:

Cray YMP8/432	128 MWords SSD	44 GBytes of disk storage
Convex C220	128 MBytes of memory	2 GBytes of disk storage

An IBM 3090-180J provides mass storage services for the Center. The Center's computers are connected via a high-speed UltraNet network. The visualization laboratory includes:

SGI Iris 280 GTX	Personal Iris 4D/20
Stardent 3040 with AVS	Abekas Video Recorder A60
Sun 4/490 w/ TAAC accelerator	Mac IIci

NCSC provides user support through e-mail and telephone contacts; it also provides training courses on a wide variety of supercomputing topics. NCSC has a complete training facility with lecture facilities, video taping capability, and a hands-on training laboratory populated with NCD X-window terminals. NCSC is a partner in the VISTAnet project, a component of the NREN project sponsored by the National Science Foundation. NCSC is installing a HiPPI based internal network for high-speed visualization and mass storage services. The Research Institute within NCSC promotes interdisciplinary and computational approaches to challenging problems through collaboration with industrial and academic partners.

Network Access

NCSC is a member of CoNCert, a state-wide network with bandwidth up to T3, operated by MCNC's Communications Division (see section 5.23 of the *Internet Resource Guide*). CoNCert accesses the Internet through SURAnet (see section 5.17 of the *Guide*). A state-wide two-way video and voice conferencing network, also operated by MCNC's Communications Division, connects NCSC with universities across the state for collaboration and training.

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The network address of NNSC Cray is flyer.ncsc.org. NCSC's mail server is ncsc.ncsc.org.

Who Can Use The Center

Resources are allocated on a peer-review basis to researchers affiliated with North Carolina's education system at no cost to the researchers.

Miscellaneous Information

Executive Director

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Industry Partnerships

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