FACT SHEET

UNITED STATES AIR FORCE

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MAUI HIGH-PERFORMANCE COMPUTING CENTER

The Maui High-Performance Computing Center (MHPCC) is a research and development center that provides a state-of-the-art computational capability. It is managed by the University of Hawaii under contract to Air Force Research Laboratory's Directed Energy Directorate at Kirtland Air Force Base, New Mexico. The MHPCC operates as a distributed center for the Department of Defense's High Performance Computing Modernization Program providing advanced hardware, tools, training, and network connectivity to DoD researchers across the country who support the warfighter. In addition, the MHPCC provides critical high-performance computing resources to other DoD and non-DoD government agencies and educational institutions in Hawaii and throughout the continental United States. The Center is under the command of Air Force Research Laboratory's Detachment 15: the host unit for all Air Force resources on Maui. The MHPCC is located in the Maui Research and Technology Park in the town of Kihei on the island of Maui, Hawaii.

The MHPCC provides computational resources for the Department of Defense's scientific computational needs through support of DoD "Challenge Projects." The Center also supports the Directed Energy Directorate's Maui Space Surveillance System. Located atop 10,000-foot Mt. Haleakala, the Space Surveillance System is used for operations and research on the tracking and imaging of space objects. Additionally, the MHPCC fosters technology exchange with U.S. industry, stimulates economic development in the region, and establishes educational programs in high-performance computing.

The MHPCC provides a combination of the most advanced IBM scalable parallel processors, the first and largest DoD Linux Supercluster, and expertise in multiple technical arenas, including image processing. Equipment installed in 2000 and early 2001 increased the computational capabilities of the Center by 500 percent. After the installation of the Power3 Nighthawk SP nodes and the 520 processor IBM Pentium3 Linux Supercluster, the MHPCC now has a total of 1,983 processors and 2.36 TeraFLOPs of peak computational power. The Center currently supports 500 DoD users and more than 900 users overall that include industry and academia.

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(Current as May 2002)