

COMPUTER SYSTEM ENGINEERING & ANALYSIS SUPPORT — UWAF IHD/NSWC

The Underwater Warheads Analysis Facility (UWAF) of the Indian Head Division, Naval Surface Warfare Center (IHD/NSWC), use multi-processor computing hardware and software systems extensively to perform the computational analyses required in the 3D modeling and simulation of complex structures and their response to explosive effects. *Intekras* provides computer system expertise and system level support for UWAF computers' software and hardware systems as required to ensure continuous operations.

Intekras computer system engineer analysts perform the following tasks:

- Provide hardware and software system level support for the computers in the Underwater Warheads Analysis Facility.
- Provide system administration and management support for the Silicon Graphics Inc. (SGI) computational assets used by the Energetics Technology Department. The system assets include Unix-based mainframe and workstation computers.
- Provide system level support by monitoring and performing the manufacturer's logistical system level maintenance.
- Provide expertise in trouble-shooting and resolving computer system hardware and software problems and/or requirement issues.
- Analyze computer system security requirements and recommend solutions. Identify and install computer system security patches to resolve any known critical issues as required by NAVY security accreditation policies.
- Provide software and hardware system support for SGI Altix SuSE Linux OS computer system and the SGI Origin IRIX OS computer system; including DYSMAS, CTH, and Overflow.
- Identify and implement required sever upgrades to maintain licenses and resolve any conflicting issues between different vendors.
- Provide consulting support to the system user for responding to general questions on facility usage.
- Provide system administration support and interface for local area networks (LANs) connections support between user desktop computers and servers and mainframe computer systems.
- Provide consulting help to resolve PC-cluster (COBRA) compatibility issues, including compatibility issues between MSFT OS and IRIX/LINUX. Also, provide consulting services on the use of sockets as a means of coupling codes on the same or different machines.
- Provide hardware system trouble-shooting and resolution issues for user printers, network connections, and WAN hubs.

