SwiftView™

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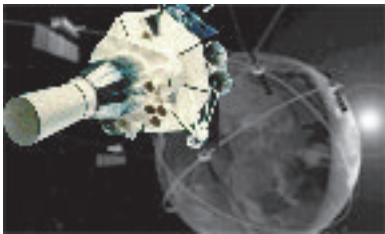
Software Engineering Report

Summary of Recent Activity

Software engineering services for the past six months at FORTH, Inc. focused on custom and contract services provided by senior staff. Refinement of the development systems SwiftX™, SwiftForth™, and Power MacForth™ also progressed, enabling improved performance, utility and functionality for developers of embedded systems and Windows and Macintosh applications.

Some highlights of our recent activities are summarized here. Contact our staff for project estimates, scheduling and integration details.

BEI Technologies, Inc.
Precision Systems & Space Division

Two-axis redundant position encoder with resolution of 25 bits (0.038 arcseconds) for tracking missile launches; returns results for both axes in 200 μsecs. The encoder is based on a radiation-hardened (space-rated) Harris RTX-2010. System is part of the Defense Support Program's Space Based Infrared Systems (SBIRS) technology.

Amtelco
Specialized call-center applications

Text and alphanumeric paging system interfaces, digital telephony switching, MVIP and PEB bus devices, Dialogic and Brooktrout (formerly Rhetorex) voice processing, Basic Rate (BRI) and Primary Rate (PRI) ISDN, T1, E1 telephony, TCP/IP and netBIOS network interfaces.
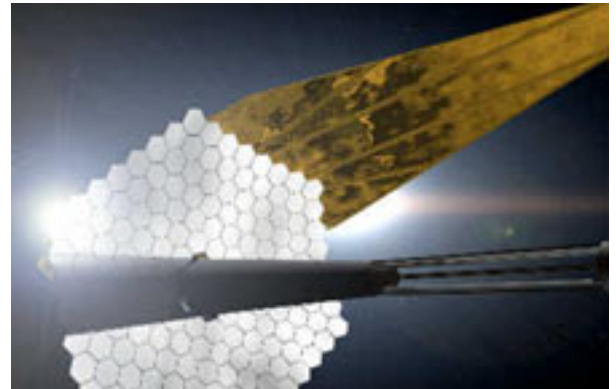
Blue Line Engineering
Active/Adaptive Optics

Adaptive optics control systems using high-speed Motorola 56300 DSPs and embedded 68332 MCUs. Distributed control via fiber-optic communications. Field upgradable devices with software download and flash programming capabilities.

Selections from other recent/ongoing projects

Wadsworth Control Systems: Windows-based front end to greenhouse-control systems using remote microcontrollers. Data collection, analysis and configuration.

NASA: UTMC 69R000 development system for interactive testing of C object files. Replaces UTMC monitor with an interactive, Windows-based application test environment.

Owens-Corning Fiberglas: Factory automation systems for various aspects of fiberglass manufacturing plants in the United States, Korea, and Mexico. Systems include a weigh station with electronic scale interface, and a breakdown detection and measurement system.

WearLogic: Custom kernel and development environment for manufacturer of wearable computing devices, including integrated smart card readers.

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