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Device Interface Language Software Set Development

Client

Aquila Technology Group, Inc, is a major supplier to government and industry worldwide, specializing in industrial controls, safeguards surveillance and seals, computer systems, and secure computer networks. Aquila supplies nuclear safeguards products to government and industry worldwide including the development, manufacture, sale, and maintenance of all equipment. Aquila also manufactures containment seals and is involved in replacement seal technology development.

Solution

The task was to develop a software set, aimed at facilitating the development of hardware device drivers and generic I/O handlers. The application includes DIL (Device Interface Language) compiler, which emits code for DIL pseudo-computer; DIL interpreter, which implements DIL pseudo-computer; X interface to the DIL interpreter, which provides debugging environment; UNIX driver with DIL interpreter embedded, which provides quick response to hardware device interrupts. Successfully developed, the application is used as a tool for developing VME bus external device drivers.

Auriga's Contribution

Development and re-engineering.

Implementation

DIGITAL UNIX running on VME Alpha64 computer, C/C++.