



# CASE STUDY: ALEBRA TECHNOLOGIES INC.

OLD WAVE. NEW WAVE. ROGUE WAVE.

*Alebra Technologies, Inc. will use SourcePro® Core to rapidly port its Parallel Data Mover™ software to Linux, enabling Alebra to satisfy customer demands without sacrificing business value.*

## ALEBRA THE ORGANIZATION

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**Jeff Goldszer**  
Senior Computer Programmer  
Alebra Technologies Inc.

Headquartered in Minneapolis with offices in Boston and Atlanta, Alebra Technologies develops and markets proprietary enterprise integration software and compliance services to businesses worldwide. Its software portfolio includes datasharing and communications solutions that integrate mainframe and open system environments, while its compliance services deliver managed IT solutions from its Secure Operations Center.

Alebra's solutions are marketed to mid-market and enterprise customers worldwide through direct, partner, and OEM arrangements. With technology and distribution partners that span the globe, Alebra has over 200 Global 2000 accounts for its products and services.

Alebra has been ranked #106 in the 2005 Deloitte’s prestigious Technology Fast 500 Program for North America, a ranking of the five hundred fastest growing technology companies in North America by Deloitte & Touche LLP.

## THE NEED TO QUICKLY & EFFICIENTLY MOVE TO LINUX

Alebra offers three enterprise software product programs that provide host connectivity and cross-platform data sharing, categorized into the following families:

PRODUCT NAME	DESCRIPTION
Parallel Data Mover™ (PDM)	Parallel Data Mover is a cross-platform application that allows users to reliably transfer large volumes of data using parallel-streaming technology.
Brixton	The Brixton PU2.1 SNA Server is networking software best known as Sun's SunLink SNA 3270 Gateway, enabling communications between TCP/IP networked clients and IBM mainframe and midrange systems using SNA and other protocols.
EXPRESS	EXPRESS is the industry's foremost host connectivity software on an open platform. It brings together all advanced SNA capabilities into one highly-integrated software package, unparalleled in the industry.

In evolving the PDM product development roadmap, Alebra required a software solution that supported all major data center platforms. With the increasing popularity of Linux, it was clear that Alebra needed to provide support for this platform to meet customer needs. Alebra already provides support for a variety of platforms, including IBM® AIX®, MVS® and z/OS®, HP-UX, Sun Solaris™, and Windows®. Adding Linux to the fold would not only enable Alebra to fulfill emerging customer demand for this platform, but also make its popular PDM product a truly cross-platform solution. Besides the ability to quickly and easily port to Linux, Alebra's other solution criteria included:

- » Solution must provide the ability to rapidly port mission-critical enterprise applications from C++ to different platforms
- » Solution must minimize the time it takes to bring solutions to market on new platforms
- » Solution must provide reusable, cross-platform components for RedHat® Linux and SuSE® Linux
- » Solution must maximize developer productivity
- » Solution must provide broad support for operating-system platforms
- » Solution must make source code accessible

Alebra had considered completing the project internally, but after close analysis, determined that developers' time was better spent on adding business value to products rather than low-level coding tasks.

From here, the decision was easy. "Alebra first began working with Rogue Wave Software in 1994. With over a decade-long relationship, I'm extremely confident in Rogue Wave's ability to deliver proven components for the professional developer," said Gerry Fisher, Chairman and CEO of Alebra.

# RAPIDLY PORT ENTERPRISE APPLICATIONS WITH SOURCEPRO® C++

Based on Alebra's criteria, SourcePro® Core was the perfect tool to enable them to achieve their goals. SourcePro Core is an extensive set of fundamental C++ components that shields users from many of the intricacies of the C++ language, including classes to assist in internationalization or localization, as well as powerful and complete solutions for multithreading applications and for streaming XML and data non-intrusively.

For now, the primary SourcePro Core functionality that Alebra is taking advantage of is the renowned C++ Standard Library. This library, which is a complete implementation of the International Standard for the C++ Programming Language, ratified by the American National Standards Institute (ANSI) and the International Standards Organization (ISO), provides a variety of containers plus generic algorithms for performing operations on the Standard containers.

The fact that the C++ Standard Library is proven, portable, and fully tested on a wide variety of platforms, including Linux, Windows, Solaris, HP-UX, AIX, etc., means it is the perfect companion for Alebra's PDM product. "SourcePro C++'s unprecedented platform support played an instrumental role in our decision to select it as the tool we will use to migrate our leading-industry PDM product to Linux," said Jeff Goldszer, Senior Computer Programmer, Alebra.

"Alebra first began working with Rogue Wave Software in 1994. With over a decade-long relationship, I'm extremely confident in Rogue Wave's ability to deliver proven components for the professional developer."

**Gerry Fisher**  
Chairman and CEO  
Alebra Technologies Inc.

Other key features of the Rogue Wave® C++ Standard Library are:

- » Ten years of deployment in the world's most critical enterprise systems
- » Proven high performance
- » Complete compliance with the C++ standard
- » Complete implementation of locale library (not OS dependant)
- » User control over strict or loose standards compliance
- » Reference counted basic\_string using atomic locking
- » Thread-safety, including iostream and locale objects
- » Fast compiles and extremely small executable file sizes
- » Comprehensive, up-to-date documentation

## SOURCEPRO C++ ENABLES EFFICIENT APPLICATION EVOLUTION

By using SourcePro C++, Alebra will be able to quickly and easily port its PDM software to Linux, anticipated to be complete in early 2006. In doing so, Alebra will satisfy customer requests for this platform while helping to solidify PDM's reputation as an outstanding cross-platform solution.

“One of the main reasons Alebra selected SourcePro C++ was because of its unparalleled cross-platform capabilities. What we received from Rogue Wave Software, however, exceeded our expectations. They not only helped us solve technical challenges but enabled us to focus more on our business challenges.”

**Gerry Fisher**  
Chairman and CEO  
Alebra Technologies Inc.

With its integrated, field-proven C++ components, SourcePro C++ will enable Alebra to increase productivity and quickly port to Linux—or any platform, for that matter. SourcePro C++ supports 50 platforms and compiler combinations – more than any other product on the market! Best of all, since SourcePro C++ components are reusable, portable across industry-leading platforms, and updated to integrate new technologies, Alebra will save time, money, and resources during application evolution, updates, and maintenance.

Moreover, since SourcePro C++ simplifies the complexities of working with C++ by handling the intricacies of complex tasks like threading, string handling, and internationalization, Alebra’s developers can focus on core business logic.

“One of the main reasons Alebra selected SourcePro C++ as our solution software was because of its unparalleled cross-platform capabilities,” said Gerry Fisher, Chairman and CEO of Alebra. “What we received from Rogue Wave Software, however, exceeded our expectations. They not only helped us solve technical challenges but enabled us to focus more on our business challenges.”



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