

PRESS RELEASE



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FOR IMMEDIATE RELEASE

RECURSION SOFTWARE'S C++ Toolkits in Tumbleweed Communications Software

DALLAS, TX (November 11, 2004) - Recursion Software, Inc., a global provider of software development solutions, announced today that they have successfully completed an Opteron (AMD 64-bit) processor for Tumbleweed® Communications Corp. (Nasdaq:TMWD), a leading provider of mission-critical messaging software products for enterprise and government customers of all sizes.

Tumbleweed Communications has been using Recursion's C++ toolkit™ since 1997 to facilitate porting of its core product, Integrated Messaging Exchange™ (IME), from Windows only to support both Solaris and Windows. The C++ toolkit from Recursion shipped as part of IME 2.0 for the first time in June 1998, and has shipped on all versions of IME for Solaris and Windows since then. Tumbleweed's IME is a set of products and services that leverage the Internet and existing email to enable secure, trackable online communication, and works with any email client, any browser.

"Tumbleweed has gained great productivity using the C++ Systems Toolkit. It provided the right level of abstraction of the operating system and enabled us to quickly and confidently port one of our products to multiple platforms," said Emmanuel R. Saint-Loubert, Senior Vice President of Engineering at Tumbleweed Communications Corp. Currently, Tumbleweed is using Windows, Solaris, Linux and Linux 64-bit platforms for development.

The C++ Toolkit is a comprehensive set of portable, ANSI/ISO standards-based, class libraries supporting the development of multithreaded distributed applications. It ports to any platform and runs on multiple operating systems with zero-to-minimal code changes. Since it handles many of the intricacies of the C++ language, engineers are freed to focus on other development problems.

"Recursion Software's commitment is not only to provide quality software, but to provide quality service as well. This requires a willingness to adjust our development schedule to meet the needs of our customer base, whether for a support issue or for a development need, such as Tumbleweed's desire to enhance their own product with the Opteron port," said Paul A. Lipari, President and CEO of Recursion Software, Inc.

Tumbleweed's IME uses the C++ Foundations Toolkit Thread and Time libraries. The Thread libraries resolve the variations in implementing threads in a native C++ environment and brings all threads together in a single, full-featured C++ interface with extensive cross platform support, including the latest Opteron AMD 64-bit processor. The Time Library provides date and time strings in native languages and formats with 64-bit date range and time precise to the microsecond.

About Tumbleweed

A leading global email security company with more than 10 years in the business, Tumbleweed provides one of the deepest product lines and one of the most developed e-mail security architectures available. From our e-mail security suite, point solutions for spam, inbound and outbound filtering, to secure data encryption and certificate authentication, Tumbleweed has a solution used by enterprises and governments to help mitigate risk and increase network bandwidth. Tumbleweed customers include ABN Amro, Bank of

America Securities, Catholic Healthcare West, JP Morgan Chase & Co., The Regence Group (Blue Cross/Blue Shield), Society for Worldwide Interbank Financial Telecommunication (SWIFT), St. Luke's Episcopal Healthcare System, the US Food and Drug Administration, and the US Navy and Marine Corps. Tumbleweed was founded in 1993 and is headquartered in Redwood City, Calif. For additional information about Tumbleweed, go to www.tumbleweed.com or call 650-216-2000.

About Recursion Software, Inc.

Founded in 2001, Recursion Software, Inc. provides software engineers with powerful enterprise development solutions for constructing distributed systems using proven Java™-based methods and emerging Web Services technologies. Recursion Software products allow Java, C# and C++ developers to be productive quickly, by leveraging its expertise in object-oriented techniques and incorporating industry standards. Recursion Software's customer base includes Defense, Financial, Computer Technology, and Telecommunications industries, among others. Recursion Software is headquartered in Frisco, Texas. To learn more, visit www.recursionsw.com.

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